

1/19/05

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NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
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NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 11	CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property)
NEWS EXPRESS		JANUARY 10	CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:17:27 ON 19 JAN 2005

=>

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.05	1.05

FILE 'REGISTRY' ENTERED AT 13:20:23 ON 19 JAN 2005

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STRUCTURE FILE UPDATES: 17 JAN 2005 HIGHEST RN 815574-28-8

DICTIONARY FILE UPDATES: 17 JAN 2005 HIGHEST RN 815574-28-8

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

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L1 STRUCTURE UPLOADED

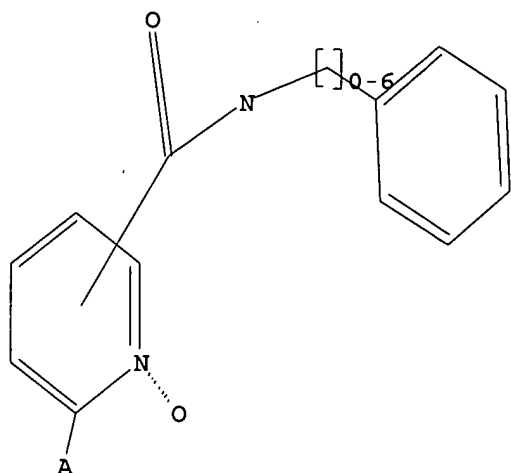
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L1 HAS NO ANSWERS

L1 STR

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Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:20:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 258 TO ITERATE

100.0% PROCESSED 258 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4197 TO 6123
PROJECTED ANSWERS: 106 TO 614

L2 18 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 13:20:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4847 TO ITERATE

100.0% PROCESSED 4847 ITERATIONS 381 ANSWERS
SEARCH TIME: 00.00.01

L3 381 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	162.38

FILE 'CAPLUS' ENTERED AT 13:20:47 ON 19 JAN 2005
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FILE COVERS 1907 - 19 Jan 2005 VOL 142 ISS 4
FILE LAST UPDATED: 18 Jan 2005 (20050118/ED)

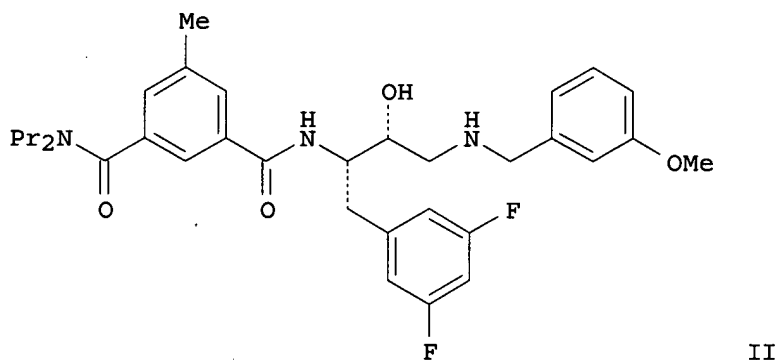
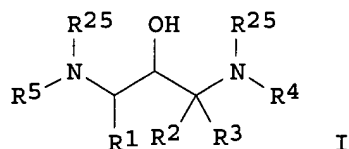
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 32 L3

=> d abs bib fhitstr 1-32

L4 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB The title compds. [I; R1 = (un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = H, alkyl, haloalkyl, alkenyl, etc.; R3 = H, alkyl, haloalkyl, alkenyl, etc.; or R2 and R3 are taken together with the carbon to which they are attached to form a carbocycle of 3-7 carbon atoms, optionally where one carbon atom is replaced by a heteroatom selected from the group consisting of O, S, SO₂, (un)substituted NH; R4 = alkyl, haloalkyl, hydroxyalkyl, etc.; R5 = R6X (wherein X = CO, SO₂, (un)substituted CH₂; R6 = (un)substituted Ph, naphthyl, indanyl, etc.); R25 = H, alkyl, alkoxy, etc.] which have activity as inhibitors of β -secretase and are

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therefore useful in treating a variety of disorders such as Alzheimer's disease, were prepared E.g., a multi-step synthesis of (1S,2R)-II, starting from (2S)-2-[(tert-butoxycarbonyl)amino]-3-(3,5-difluorophenyl)propanoic acid, was given. The compds. I showed IC50 of < 20 µM in cell free inhibition assay utilizing a synthetic APP substrate. This is a Part 1 of 1-2 series.

AN 2003:376819 CAPLUS

DN 138:385173

TI Preparation of N,N'-substituted-1,3-diamino-2-hydroxypropanes for treating Alzheimer's disease

IN Varghese, John; Maillard, Michel; Jagodzinska, Barbara; Beck, James P.; Gailunas, Andrea; Fang, Larry; Sealy, Jennifer; Tenbrink, Ruth; Freskos, John; Mickelson, John; Samala, Lakshman; Hom, Roy

PA Elan Pharmaceuticals, Inc., USA; Pharmacia & Upjohn Company

SO PCT Int. Appl., 1243 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003040096	A2	20030515	WO 2002-US36072	20021108
	WO 2003040096	A3	20040506		
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	WO 2003040096	A2	20030515	WO 2002-XA36072	20021108
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	US 2004171881	A1	20040902	US 2002-291318	20021108
	EP 1453789	A2	20040908	EP 2002-793909	20021108
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK	
PRAI	US 2001-337122P	P	20011108		
	US 2001-344086P	P	20011228		
	US 2002-345635P	P	20020103		
	WO 2002-US36072	A	20021108		

OS MARPAT 138:385173

IT 527729-87-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N,N'-substituted-1,3-diamino-2-hydroxypropanes for treating

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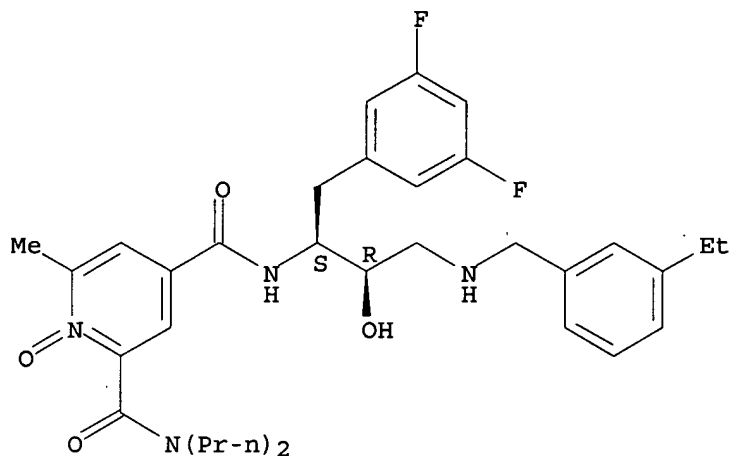
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Alzheimer's disease)

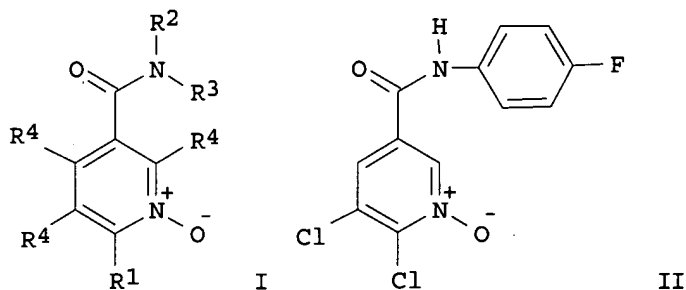
RN 527729-87-9 CAPLUS

CN 2,4-Pyridinedicarboxamide, N4-[(1S,2R)-1-[(3,5-difluorophenyl)methyl]-3-[[3-(ethylphenyl)methyl]amino]-2-hydroxypropyl]-6-methyl-N2,N2-dipropyl-, 1-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB Title compds. I, their optical isomers, diastereomers, enantiomers and pharmaceutically acceptable salts [wherein: R1 = R5, R5-heteroalkylene; R5 = H, halo, alkyl, heteroalkyl, etc.; R2, R3 = H, alkyl, heteroalkyl, aryl, etc.; R4 = H, halo, alkyl, heteroalkyl, etc.] were claimed. For example, hydrogen peroxide mediated N-oxidation of 2-chloro-N-(4-fluorophenyl)-6-methylnicotinamide provided claimed oxynicotinamide II in 10% yield. Nicotinamide N-oxides I are disclosed to inhibit chemokine-mediated cellular and inflammation events. Specific binding of 95 claimed examples to human interleukin 8 and human growth-regulatory oncogene- α (GRO- α) chemokine were reported as < or > 40% at 20 μ M ligand concentration, e.g., compound II > 40% for GRO- α , were disclosed. Also, the specific binding of 9 claimed examples to human chemokine CCR5, human interleukin-CXCR1, human interleukin-CXCR2, human neuropeptide Y1 and

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somatostatin, e.g., compound II: < 40% for CCR5, somatostatin; > 40% for CXCR1, CXCR2; no data for NYP1, were disclosed. A method for the identification of nicotinanilide-N-oxides. I receptors from cell or cellular components and the isolation of compds. I which bind to TNF- α signaling proteins via affinity bead chromatog. and surface plasmon resonance (SPR) are claimed (no data).

AN 2002:521710 CAPLUS

DN 137:93690

TI Preparation of nicotinanilide-N-oxides as G-protein-coupled receptor antagonist for the treatment of inflammation due to neutrophil chemotaxis

IN Cutshall, Neil S.; Yager, Kraig M.

PA Darwin Discovery Ltd., UK

SO PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

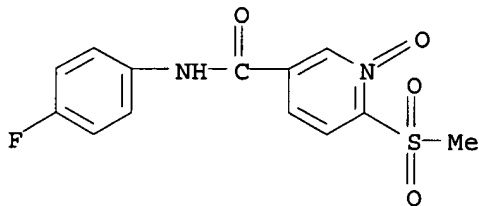
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003004189	A1	20030102	US 2001-15861	20011212
PRAI	US 2000-258730P	P	20001229		
OS	MARPAT 137:93690				
IT	364078-34-2P				

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of nicotinanilide-N-oxides as G-protein-coupled receptor antagonist)

RN 364078-34-2 CAPLUS

CN 3-Pyridinecarboxamide, N-(4-fluorophenyl)-6-(methylsulfonyl)-, 1-oxide (9CI) (CA INDEX NAME)



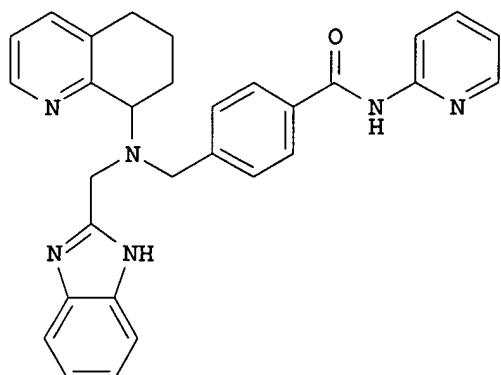
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN

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II

- AB Members of a class of (mostly tertiary) amines, containing a multiplicity of heteroarom. substituents, and the salts and prodrug forms thereof, are useful as chemokine receptor modulators. In particular, compds. of formula X-L1-N(Z)-(CR12)_n-Ar-L2-N(R2)-L3-Y (I) are disclosed [wherein: X = monocyclic (5-6 membered) or fused bicyclic (9-12 membered) (un)substituted ring system containing at least 1 N, O, or S atom; Z = H, monocyclic (5-6 membered) or fused bicyclic (9-12 membered) (un)substituted ring system containing at least 1 N, O, or S atom; Ar = (un)substituted aromatic or heteroarom. ring; each of L1, L2, and L3 = bond, CO, SO₂, or CH₂, wherein at least 1 of L2 and L3 must comprise CO or SO₂, and wherein L1 can also be alkylene (2-5C) wherein 1 or 2 C may optionally be replaced by N and which alkylene may itself optionally be substituted by a bridge alkylene (3-4C); L2 and L3 also may be, independently, SO₂NH, CONH, SO₂NHCH₂ or CONHCH₂; n = 0, 1, or 2; each R1 and R2 = H, straight or branched chain or cyclic alkyl (1-6C) which may optionally be substituted, and wherein R2 may be alkylene coupled to Y; and Y comprises at least 1 aromatic or heteroarom. or other heterocyclic (un)substituted ring coupled directly to L3]. The compds. are useful for treatment of conditions which are modulated by the chemokine receptors CXCR4 and CCR5, and particularly for treatment of patients infected with HIV or FIV. Examples include 54 syntheses and 3 bioassays, and many addnl. compds. within the invention are listed. For instance, amidation of 4-(chloromethyl)benzoyl chloride with 2-aminopyridine (49%), followed by amination of the chloride with 8-[N-(2-nitrobenzenesulfonyl)amino]-5,6,7,8-tetrahydroquinoline (92%), removal of the 2-nitrobenzenesulfonyl group from the amine using PhSH and K₂CO₃ in DMF (93%), and finally N-alkylation of the amine with N-BOC-2-(chloromethyl)benzimidazole and deprotection (47%), gave title compound II, designated AMD 9370. In a test for inhibition of Ca flux induced by the chemokine SDF-1 α in SUP-T1 cells in vitro, 6 compds. including II gave > 20% inhibition at 20 μ g/mL. In a test for inhibition of NL4.3/IIIB (CXCR4-using) HIV-1 in MT-4 cells in vitro, 7 compds. including II exhibited EC₅₀ values < 20 μ g/mL. The compds. also inhibited BaL (CCR5-using) HIV-1 similarly.
- AN 2002:220575 CAPLUS
- DN 136:263159
- TI Chemokine receptor-binding heterocyclic compounds, particularly (5,6,7,8-tetrahydroquinolin-8-yl)amino- and (1H-benzimidazol-2-yl)methyl-containing aromatic and heteroaromatic amides, useful for treating infection with HIV and FIV
- IN Bridger, Gary; Skerlj, Renato; Kaller, Al; Harwig, Curtis; Bogucki, David;

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Wilson, Trevor R.; Crawford, Jason; McEachern, Ernest J.; Atsma, Bem; Nan, Siqiao; Zhou, Yuanxi; Schols, Dominique; Smith, Christopher Dennis; Di Fluri, Rosaria Maria

PA Anormed Inc., Can.

SO PCT Int. Appl., 146 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2002022599	A3	20020530		
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	AU 2001093551	A5	20020326	AU 2001-93551	20010917
	US 2002147192	A1	20021010	US 2001-957654	20010917
	US 6835731	B2	20041228		
	EP 1317443	A2	20030611	EP 2001-973887	20010917
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	NO 2003001178	A	20030314	NO 2003-1178	20030314
	US 2004171638	A1	20040902	US 2004-799386	20040311
PRAI	US 2000-233087P	P	20000915		
	US 2000-234816P	P	20000922		
	WO 2001-CA1325	W	20010917		
	US 2002-31812	A1	20020328		

OS MARPAT 136:263159

IT 405230-07-1P, AMD 11037

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

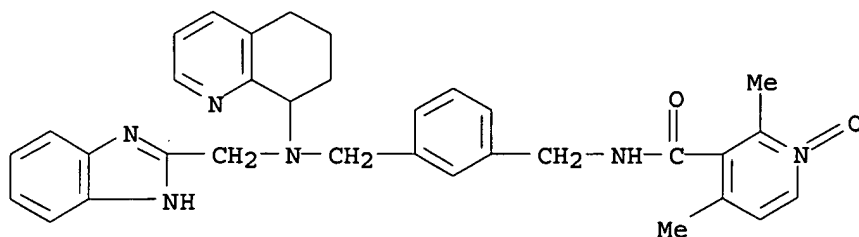
(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor antagonists for treatment of HIV and FIV infection)

RN 405230-07-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[[3-[[[(1H-benzimidazol-2-ylmethyl)(5,6,7,8-tetrahydro-8-quinolinyl)amino]methyl]phenyl]methyl]-2,4-dimethyl-, 1-oxide, trihydrobromide (9CI) (CA INDEX NAME)

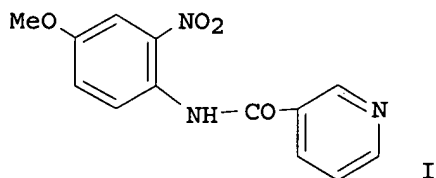
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L4 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB Title compds. [Ar1CONR11Ar; Ar, Ar1 independently = aryl, heteroaryl with less than two nitrogen; R11 = H, alkyl, cycloalkyl, aryl, heteroaryl], or a pharmaceutically acceptable salt, or prodrug thereof are prepared and method of treating a disorder responsive to the induction of apoptosis in mammal in need of treatment. The present invention relates to the discovery that title compds. are activators of caspase and inducers of apoptosis. Title compds. of this invention may be used to induce cell death in a variety of clin. conditions in which uncontrolled growth and spread of abnormal cells occurs. Thus, the title compound I was prepared and biol. tested for caspase activity with cancer cell lines T47D and ZR75-1, for induced nuclear fragmentation and mitotic arrest in Jurkat cells, and for cell cycle arrest and apoptosis in solid tumor cell lines.

AN 2001:565011 CAPLUS

DN 135:137520

TI Preparation of benzoylamides, nicotinamides, pyrimidinecarboxamides, pyrrolylcarboxamides, and analogs as activators of caspase and inducers of apoptosis and the use thereof

IN Cai, Sui Xiong; Drewe, John A.

PA Cytovia, Inc., USA

SO PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DT Patent

LA English

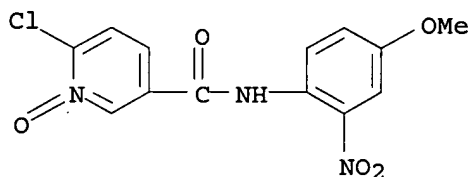
FAN.CNT 1

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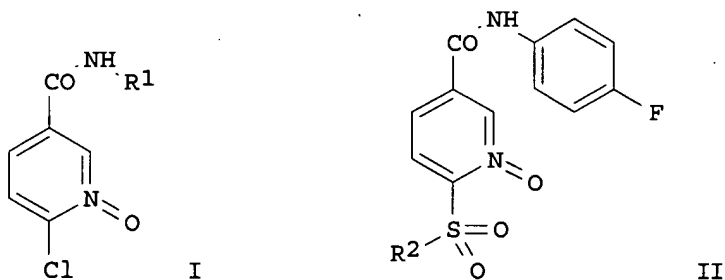
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CA 2397493 AA 20010802 CA 2001-2397493 20010126
US 2002010185 A1 20020124 US 2001-769420 20010126
US 6794397 B2 20040921
EP 1257536 A1 20021120 EP 2001-903311 20010126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2003520854 T2 20030708 JP 2001-555057 20010126
US 2004235846 A1 20041125 US 2004-876618 20040628
PRAI US 2000-177648P P 20000127
US 2001-769420 A3 20010126
WO 2001-US2478 W 20010126
OS MARPAT 135:137520
IT 352228-60-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzamides, nicotinamides, pyrimidinecarboxamides,
pyrrolylcarboxamides, and analogs as activators of caspase and inducers
of apoptosis and use thereof)
RN 352228-60-5 CAPLUS
CN 3-Pyridinecarboxamide, 6-chloro-N-(4-methoxy-2-nitrophenyl)-, 1-oxide
(9CI) (CA INDEX NAME)



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB A series of nicotinamide N-oxides, I [R1 = 4-F-, 4-I-, 4-Me3C-, 2-HO-, 4-MeO-C6H4, Ph2CH-, 4-F-C6H4CH2-, cyclohexyl] and II [R2 = Me-, Et-, Me2CH-, Ph-, 4-HO2CC6H4-, PhCH2-, cyclopentyl], was synthesized and shown to be novel, potent, and selective antagonists of the CXCR2 receptor. Furthermore, these compds. showed significant functional activity against GRO- α -driven human neutrophil chemotaxis. Compds. of this class may be useful for the treatment of inflammatory, auto-immune, and allergic disorders.

AN 2001:518633 CAPLUS

DN 135:272846

TI Nicotinamide N-Oxides as CXCR2 antagonists

AU Cutshall, N. S.; Ursino, R.; Kucera, K. A.; Latham, J.; Ihle, N. C.

CS Department of Chemistry, Celltech R&D, Inc., Bothell, WA, 98021, USA

SO Bioorganic & Medicinal Chemistry Letters (2001), 11(14), 1951-1954

CODEN: BMCLE8; ISSN: 0960-894X

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 135:272846

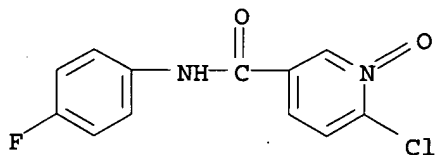
IT 364078-26-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation and anti-inflammatory structure-activity relationships of nicotinamide N-oxides as CXCR2 antagonists)

RN 364078-26-2 CAPLUS

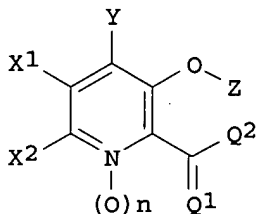
CN 3-Pyridinecarboxamide, 6-chloro-N-(4-fluorophenyl)-, 1-oxide (9CI) (CA INDEX NAME)

priority 2001

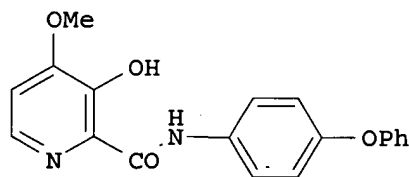


RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I



II

AB Picolinic acid derivs., such as I [Q1 = O, imino, aminoimino; Q2 = alkyloxy, alkylthio, cycloalkyloxy, cycloalkylthio, amino, etc.; Y = H,

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OH, NH₂, N₃, CN, NO₂, alkyloxy, alkylthio, acylamino, etc.; X₁, X₂ = H, OH, SH, NO₂, SCN, N₃, CN, halogen, alkyl, alkoxy, alkylthio, etc.; Z = H, alkyl, aryl, allyl, propargyl, cycloalkyl, etc.; n = 0, 1], were prepared for agrochem. use against plant fungal pathogens and pharmaceutical use as fungicides. Thus, picolinamide II was prepared by amidation of 3-hydroxy-4-methoxypyridine-2-carboxylic acid with 4-phenoxyaniline using 1-hydroxybenzotriazole and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride in pyridine at 85° for 2 h. The prepared picolinic acid derivs. were tested for activity against fungal strains, such as *Alternaria brassicae* and *Septoria nodorum*.

AN 2001:507679 CAPLUS

DN 135:92547

TI Preparation of picolinic acid derivs. for agrochemical and therapeutic use as fungicides

IN Nieto-Roman, Francisco; Vors, Jean-Pierre; Villier, Alain; Lachaise, Helene; Mousques, Adeline; Hartmann, Benoit; Hutin, Pierre; Molina, Jose Lorenzo; Muller, Benoit

PA Aventis CropScience SA, Fr.

SO PCT Int. Appl., 121 pp.
CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001049666	A1	20010712	WO 2001-FR33	20010105
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2803592	A1	20010713	FR 2000-140	20000106
	CA 2396299	AA	20010712	CA 2001-2396299	20010105
	BR 2001007241	A	20020709	BR 2001-7241	20010105
	EP 1244627	A1	20021002	EP 2001-903877	20010105
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003519214	T2	20030617	JP 2001-550206	20010105
	ZA 2002003830	A	20031126	ZA 2002-3830	20020514
	BG 106834	A	20030131	BG 2002-106834	20020618
	US 2003191113	A1	20031009	US 2002-181842	20020708
PRAI	FR 2000-140	A	20000106		
	WO 2001-FR33	W	20010105		

OS MARPAT 135:92547

IT 349470-86-6P

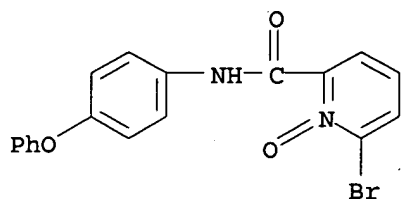
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of picolinic acid derivs. for agrochem. and therapeutic use as fungicides)

RN 349470-86-6 CAPLUS

CN 2-Pyridinecarboxamide, 6-bromo-N-(4-phenoxyphenyl)-, 1-oxide (9CI) (CA INDEX NAME)

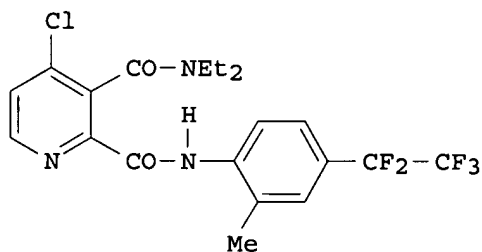
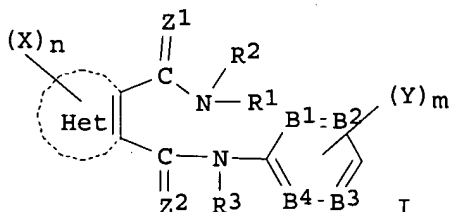
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RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB The title compds. I [R1, R2 and R3 represent each H, optionally halogenated C3-6 cycloalkyl, etc.; Het represents a 5- or 6-membered heterocycle; X and Y represent each halocyano, nitro, optionally halogenated C3-6 cycloalkyl, optionally substituted Ph, an optionally substituted heterocycle, etc; n is from 0 to 3; m is from 1 to 5; Z1 and Z2 represent each O or S; and B1 to B4 represent each C or N] are prepared I have an excellent controlling effect on pest insects such as diamond-back moth (*Plutella xylostella*) and tobacco cutworm (*Spodoptera litura*). The title compound II at 500 ppm gave $\geq 90\%$ control of *Plutella xylostella*.

AN 2001:12413 CAPLUS

DN 134:71497

TI Preparation of heterocyclic dicarboxylic acid diamide derivatives as agricultural and horticultural insecticides

IN Katsuhira, Takeshi; Furuya, Takashi; Gotoh, Makoto; Tohnishi, Masanori; Takaishi, Hideo; Sakata, Kazuyuki; Morimoto, Masayuki; Seo, Akira

PA Nihon Nohyaku Co., Ltd., Japan

SO PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DT Patent

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LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001000575	A1	20010104	WO 2000-JP4136	20000623
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	BR 2000011818	A	20020319	BR 2000-11818	20000623
	EP 1188745	A1	20020320	EP 2000-940823	20000623
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 761273	B2	20030529	AU 2000-55689	20000623
	JP 2001064258	A2	20010313	JP 2000-191500	20000626
	ZA 2001010006	A	20030205	ZA 2001-10006	20011205
	US 6747041	B1	20040608	US 2002-18463	20020410
PRAI	JP 1999-179035	A	19990624		
	WO 2000-JP4136	W	20000623		

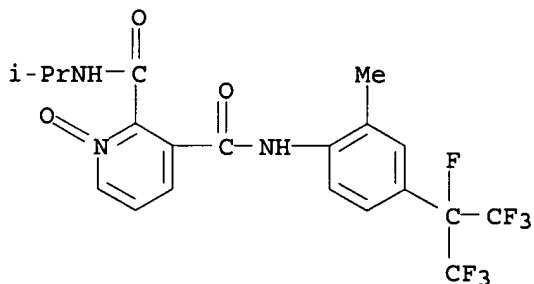
OS MARPAT 134:71497

IT 314762-71-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of heterocyclic dicarboxylic acid diamide derivs. as agricultural and horticultural insecticides)

RN 314762-71-5 CAPLUS

CN 2,3-Pyridinedicarboxamide, N2-(1-methylethyl)-N3-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN

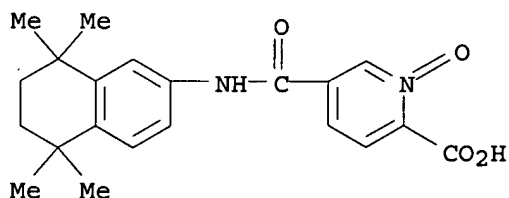
AB Several pyridine- and pyrimidine-carboxylic acids were synthesized as ligand candidates for retinoid nuclear receptors, retinoic acid receptors (RARs) and retinoic X receptors (RXRs). Although the pyridine derivs., 6-[(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)carbamoyl]pyridine-3-carboxylic acid and 6-[(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)carboxamido]pyridine-3-carboxylic acid are more potent than

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the corresponding benzoic acid-type retinoids, Am80 and Am580, the replacement of the benzene ring of Am580, Am555, or Am55 with a pyrimidine ring caused loss of the retinoidal activity both in HL-60 cell differentiation assay and in RAR transactivation assay using COS-1 cells. On the other hand, pyrimidine analogs (PA series) of potent RXR agonists (retinoid synergists) with a diphenylamine skeleton (DA series) exhibited potent retinoid synergistic activity in HL-60 cell differentiation assay and activated RXRs. Among the synthesized compds., 2-[N-n-propyl-N-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)amino]pyrimidine-5-carboxylic acid (PA013) is most active retinoid synergist in HL-60 assay.

AN 2000:734380 CAPLUS
DN 134:29571
TI Retinoidal pyrimidinecarboxylic acids. Unexpected diaza-substituent effects in retinobenzoic acids
AU Ohta, Kiminori; Kawachi, Emiko; Inoue, Noriko; Fukasawa, Hiroshi; Hashimoto, Yuichi; Itai, Akiko; Kagechika, Hiroyuki
CS Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, 113-0033, Japan
SO Chemical & Pharmaceutical Bulletin (2000), 48(10), 1504-1513
CODEN: CPBTAL; ISSN: 0009-2363
PB Pharmaceutical Society of Japan
DT Journal
LA English
OS CASREACT 134:29571
IT 312263-59-5P, Am 80P4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and retinoidal activity of heterocyclic retinoid analogs)
RN 312263-59-5 CAPLUS
CN 2-Pyridinecarboxylic acid, 5-[[[(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)amino]carbonyl]-, 1-oxide (9CI) (CA INDEX NAME)



RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
AB Starting from picolinic acids, amino acid-derived 2-pyridinecarboxamide 1-oxides (I) and 2,6-pyridinedicarboxamide 1-oxides (II) are prepared in 2 steps by coupling of the picolinic acid N-oxides with the corresponding L-amino acid ester or (1R,2S)-norephedrine under Appel conditions. Compds. I and II were used as chiral ligands in 2 different asym. catalyzes. In the catalytic addition of Et2Zn to PhCHO, low enantioselectivities (2-29% ee) were obtained regardless of the amino acid moiety. However, norephedrine- or methionine-derived 2,6-pyridinedicarboxamides led to increased ee values (55% ee). In the catalytic reduction of aromatic ketones to alcs. with BH3.SMe2, low enantioselectivities were observed for alanine-, valine-, and leucine-derived N-oxides. An increase of selectivity was observed for the methionine

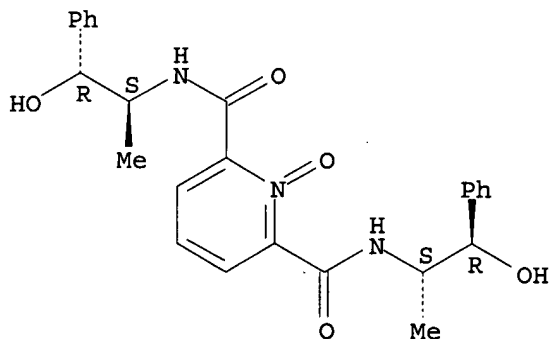
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bis-amide N-oxide (32-38% ee) compared to that of the norephedrine monoamide N-oxide (7-16% ee). However, the latter and the corresponding bis-norephedrine ligand displayed the highest selectivities (≤ 64 and 51% ee, resp.). The influence of the N-oxide moiety on the enantioselectivity was demonstrated by the observation that 2,6-bis(aminoacyl)pyridines gave much lower selectivities than the corresponding pyridine N-oxides.

AN 1999:337303 CAPLUS
DN 131:19268
TI Novel chiral pyridine N-oxide ligands and their application in the enantioselective catalytic reduction of ketones and the addition of diethylzinc to aldehydes
AU Derdau, Volker; Laschat, Sabine; Hupe, Eike; Konig, Wilfried A.; Dix, Ina; Jones, Peter G.
CS Institut Organische Chemie, Technische Univ. Braunschweig, Braunschweig, D-38106, Germany
SO European Journal of Inorganic Chemistry (1999), (6), 1001-1007
CODEN: EJICFO; ISSN: 1434-1948
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 131:19268
IT 226383-78-4P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
USES (Uses)
(asym. catalyst for reduction of ketones and addition of ethylzinc to aldehydes)
RN 226383-78-4 CAPLUS
CN 2,6-Pyridinedicarboxamide, N,N'-bis[(1S,2R)-2-hydroxy-1-methyl-2-phenylethyl]-, 1-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

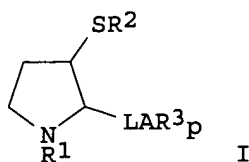


RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB The title compds. I [R1 = H, alkyl, COalkyl, etc.; R2 = H, alkyl, COalkyl, etc.; R3 = H, OH, cyano, NO2, etc.; p = 0-3, L is a linking moiety; A = phenyl; naphthyl, 5-10 membered monocyclic or bicyclic heteroaryl ring containing up to 5 heteroatoms], inhibitors of ras farnesylation, were prepared.

E.g., 3-methyl-N-(2,2-diphenylethyl)-N-(cis)-3-sulfanylpyrrolidin-2-ylbutryamide was prepared using 3-(triylsulfanyl)pyrrolidine-2-carboxylic acid as the starting material.

AN 1998:147303 CAPLUS

DN 128:204800

TI Preparation of 3-mercaptopyrrolidines as farnesyl protein transferase inhibitors

IN Boyle, Francis Thomas; Wardleworth, James Michael

PA Zeneca Limited, UK; Boyle, Francis Thomas; Wardleworth, James Michael

SO PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9807692	A1	19980226	WO 1997-GB2212	19970813
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9740208	A1	19980306	AU 1997-40208	19970813
	EP 923545	A1	19990623	EP 1997-937660	19970813
	R:	CH, DE, FR, GB, IT, LI			
	JP 2001500118	T2	20010109	JP 1998-510500	19970813
PRAI	GB 1996-17302	A	19960817		
	GB 1997-1417	A	19970124		
	WO 1997-GB2212	W	19970813		

OS MARPAT 128:204800

IT 203853-53-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of mercaptopyrrolidines as farnesyl protein transferase inhibitors)

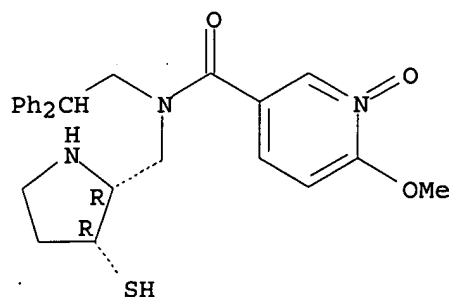
RN 203853-53-6 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,2-diphenylethyl)-N-[(3-mercapto-2-pyrrolidinyl)methyl]-6-methoxy-, 1-oxide, monohydrochloride, cis- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

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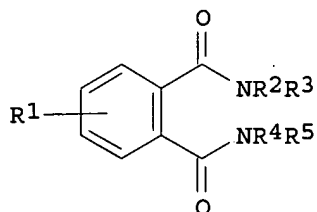
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● HCl

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I

AB Title compds. [I; R1 = H or 1-3 of halo, alkyl, alkoxy, etc.; R2 = (un)substituted Ph; R3 = H or alkyl; R4,R5 = H, (un)substituted alkyl, NH2, etc.; NR4R5 = heterocyclyl], or an N-oxide thereof, were prepared. Thus, pyridine-2,3-dicarboxylic anhydride was amidated by 2-amino-6-chlorotoluene and the product converted in 2 steps to I [R1 = R3 = R4 = H, R2 = C6H3(Me)Cl-2,3, R4 = Pr]. Data for biol. activity of I were given.

AN 1997:678928 CAPLUS

DN 127:331402

TI Preparation of pyridine-2,3-dicarboxamides as herbicides

IN Tonishi, Masanori; Katsuhira, Takeshi; Ohtsuka, Takashi; Miura, Yuzo

PA Nihon Nohyaku Co., Ltd., Japan

SO Eur. Pat. Appl., 73 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 799825	A1	19971008	EP 1997-105417	19970401
	R: CH, DE, ES, FR, GB, IT, LI				

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CA 2201437	AA	19971002	CA 1997-2201437	19970401
CA 2201437	C	20010724		
CN 1164532	A	19971112	CN 1997-111645	19970401
CN 1058961	B	20001129		
US 5843868	A	19981201	US 1997-825642	19970401
JP 09323974	A2	19971216	JP 1997-83764	19970402
BR 9701612	A	19981110	BR 1997-1612	19970402
PRAI JP 1996-104580	A	19960402		

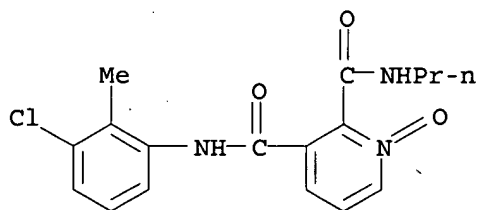
OS MARPAT 127:331402

IT 197918-70-0P

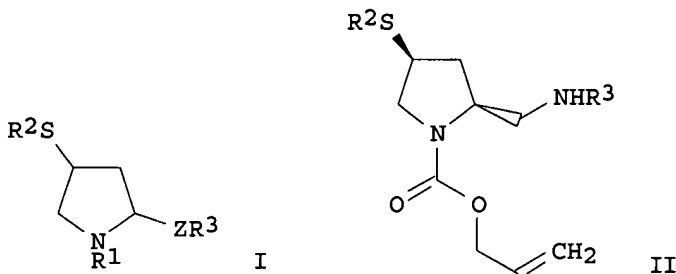
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine-2,3-dicarboxamides as herbicides)

RN 197918-70-0 CAPLUS

CN 2,3-Pyridinedicarboxamide, N3-(3-chloro-2-methylphenyl)-N2-propyl-, 1-oxide (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Title compds. [I; R1 = H, (phenyl)alkyl, alkoxy carbonyl, etc.; R2 = H, (phenyl)alkyl, alkoxy carbonyl, etc.; R3 = (un)substituted Ph, naphthyl, heteroaryl, etc.; Z = CONH, CH2NH, CH2O, CH:CH, etc.] were prepared. Thus, aminomethylpyrrolidine II (R2 = CO2CMe3, R3 = H) was amidated by pyridine-2,5-dicarboxylic acid 2-Me ester to give, after deprotection, II (R2 = H, R3 = 2-methoxycarbonylpyridyl-5-carbonyl). Data for biol. activity of 1 prepared I were given.

AN 1997:247953 CAPLUS

DN 126:225210

TI Preparation of 2-aminomethyl-4-mercaptopyrrolidines and analogs as farnesyl transferase inhibitors

IN Boyle, Francis Thomas; Davies, David Huw; Kenny, Peter Wedderburn;

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Matusiak, Zbigniew Stanley; Scholes, Peter Beverley; Wardleworth, James Michael

PA Zeneca Limited, UK; Boyle, Francis Thomas; Davies, David Huw; Kenny, Peter Wedderburn; Matusiak, Zbigniew Stanley; Scholes, Peter Beverley; Wardleworth, James Michael

SO PCT Int. Appl., 189 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9706138	A1	19970220	WO 1996-GB1810	19960730
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM				
	CA 2226671	AA	19970220	CA 1996-2226671	19960730
	AU 9666223	A1	19970305	AU 1996-66223	19960730
	AU 720353	B2	20000601		
	EP 842151	A1	19980520	EP 1996-925855	19960730
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1197453	A	19981028	CN 1996-197206	19960730
	CN 1101380	B	20030212		
	BR 9609701	A	19990323	BR 1996-9701	19960730
	JP 11510178	T2	19990907	JP 1996-508201	19960730
	NZ 313696	A	20000128	NZ 1996-313696	19960730
	TR 200101884	T2	20020621	TR 2001-200101884	19960730
	RU 2191773	C2	20021027	RU 1998-103393	19960730
	CZ 293694	B6	20040714	CZ 1998-309	19960730
	ZA 9606610	A	19970204	ZA 1996-6610	19960802
	NO 9800467	A	19980403	NO 1998-467	19980203
	US 6232338	B1	20010515	US 1998-11135	19980203
	US 6541491	B1	20030401	US 2000-725964	20001130
	CN 1377647	A	20021106	CN 2002-108502	20020326
	NO 2002004950	A	19980403	NO 2002-4950	20021015
PRAI	GB 1995-15975	A	19950804		
	WO 1996-GB1810	W	19960730		
	US 1998-11135	A3	19980203		

OS MARPAT 126:225210

IT 188354-08-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-aminomethyl-4-mercaptopyrrolidines and analogs as farnesyl transferase inhibitors)

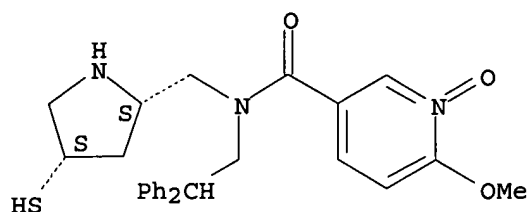
RN 188354-08-7 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,2-diphenylethyl)-N-[(4-mercapto-2-pyrrolidinyl)methyl]-6-methoxy-, 1-oxide, (2S-cis)- (9CI) (CA INDEX NAME)

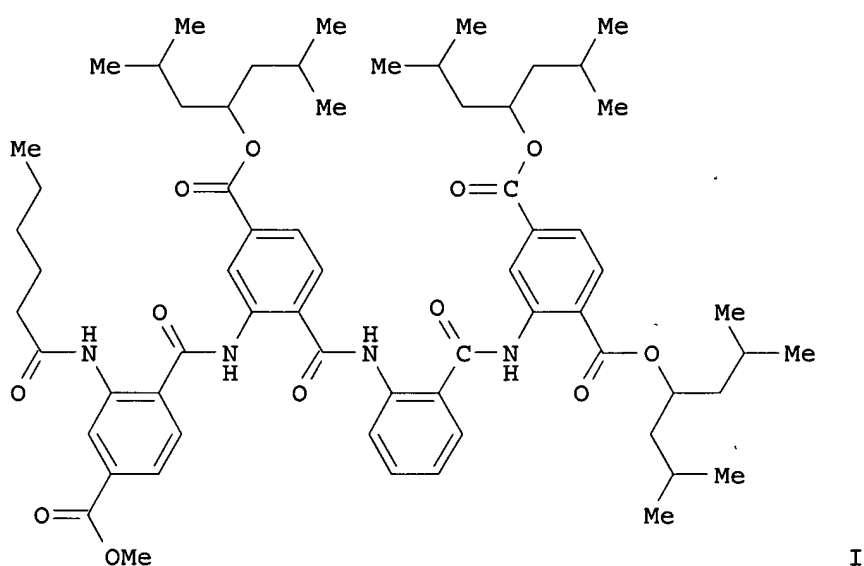
Absolute stereochemistry.

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L4 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB A family of novel oligomers based on the anthranilamide nucleus has been prepared and shown to form well-defined secondary structural features. H NMR and X-ray crystallog. techniques have demonstrated that intramol. hydrogen bonds play a key role in stabilizing both linear sheet and helical conformational forms. An example compound is the oligomeric anthranilamide I.

AN 1996:446492 CAPLUS

DN 125:167496

TI Oligoanthranilamides. Non-Peptide Subunits That Show Formation of Specific Secondary Structure

AU Hamuro, Yoshitomo; Geib, Steven J.; Hamilton, Andrew D.

CS Department of Chemistry, University of Pittsburgh, Pittsburgh, PA, 15260, USA

SO Journal of the American Chemical Society (1996), 118(32), 7529-7541
CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

IT 155139-01-8P

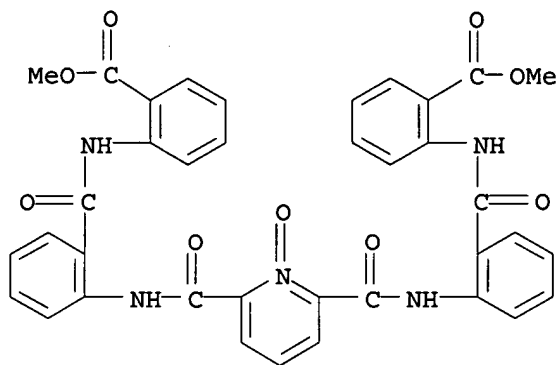
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RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and secondary structure determination of oligomeric
anthranilamides)

RN 155139-01-8 CAPLUS

CN Benzoic acid, 2,2'-[(1-oxido-2,6-pyridinediyl)bis(carbonylimino-2,1-
phenylenecarbonylimino)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN

AB Hydrogen bonding is used to control supramol. structure in two distinct
ways. The first involves intramol. hydrogen bonds to stabilize linear and
helical conformations in synthetic oligomers. The second uses intermol.
hydrogen bonding to direct the self-assembly of several interacting
subunits.

AN 1995:71053 CAPLUS

DN 122:105008

TI Intra- and intermolecular hydrogen bonding control of supramolecular
structure

AU Hamilton, Andrew D.; Hamuro, Yoshitomo; Yang, Ji; Geib, Steven J.; Fan,
Erkang

CS Department Chemistry, University Pittsburgh, Pittsburgh, PA, 15260, USA

SO NATO ASI Series, Series C: Mathematical and Physical Sciences (1994),
426(COMPUTATIONAL APPROACHES IN SUPRAMOLECULAR CHEMISTRY), 101-8
CODEN: NSCSDW; ISSN: 0258-2023

DT Journal

LA English

IT 155139-01-8P

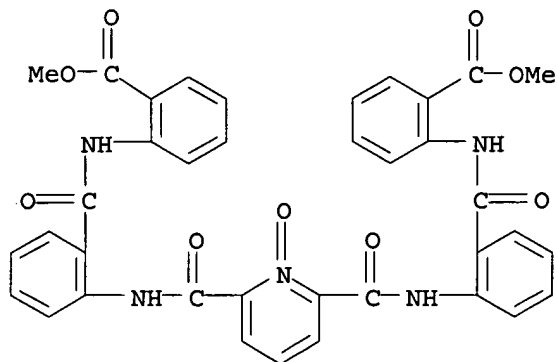
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystallog. of)

RN 155139-01-8 CAPLUS

CN Benzoic acid, 2,2'-[(1-oxido-2,6-pyridinediyl)bis(carbonylimino-2,1-
phenylenecarbonylimino)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

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L4 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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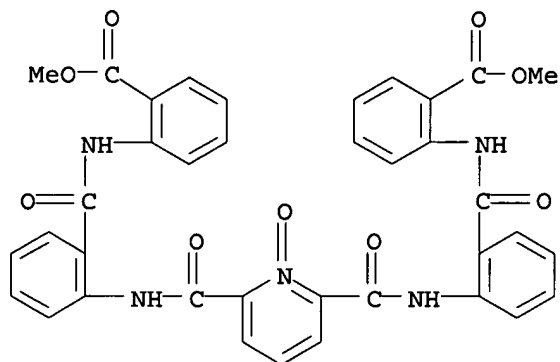
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Helical oligoanthranilamide I (R = CO₂Me) was prepared from 2,6-pyridinedicarbonyl dichloride and aminobenzamide derivative II (Y = NH₂). II (Y = NH₂) prepared from 2-nitrobenzoyl chloride condensation with anthranilic acid Me ester to give II, Y = NO₂ followed by catalytic hydrogenation. I (R = CO₂Me) was characterized by proton NMR and x-ray crystallog. and the nature of its helical structure discussed. Helical oligoanthranilamide III was also characterized by x-ray crystallog.

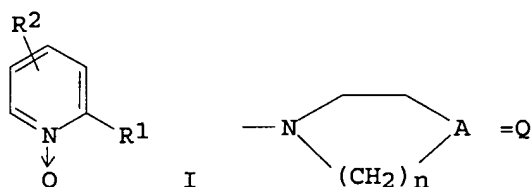
AN 1994:323221 CAPLUS
DN 120:323221
TI New molecular frameworks: formation of helical secondary structures in a group of oligoanthranilamides
AU Hamuro, Yoshitomo; Geib, Steven J.; Hamilton, Andrew D.
CS Dep. Chem., Univ. Pittsburgh, Pittsburgh, PA, 15260, USA
SO Angewandte Chemie (1994), 106(4), 465-7 (See also Angew. Chem., Int. Ed. Engl., 1994, 33(4), 446-8)
CODEN: ANCEAD; ISSN: 0044-8249
DT Journal
LA German
IT 155139-01-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal and mol. structure and proton NMR of, conformational anal. in relation to)
RN 155139-01-8 CAPLUS
CN Benzoic acid, 2,2'-[(1-oxido-2,6-pyridinediyl)bis(carbonylimino-2,1-phenylenecarbonylimino)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

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L4 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB Title compds. I [R1 = COXR3; X = O, NR; R3 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R = R3 or NRR3 = Q; n = 1-3; A = O, S, CH2, NR7; R7 = H, (substituted) Ph, alkyl, alkenyl, alkynyl, alkoxy carbonyl, cycloalkyl; R2 = COXR3; with provisos] were prepared as proline- and lysine hydroxylase inhibitors useful as fibrosuppressive and immunosuppressive agents. Thus, N-oxidation of 1 g bis(N,N'-2-methoxyethyl)pyridine-2,4-dicarboxamide by 0.62 g m-chloroperbenzoic acid gave 620 mg of the bis(N,N'-2-methoxyethyl)pyridine-2,4-dicarboxamide N-oxide (II). II was tested as a proline hydroxylase inhibitor.

AN 1992:214352 CAPLUS

DN 116:214352

TI Preparation of 2,4- and 2,5-substituted pyridine N-oxides as fibrosuppressive and immunosuppressive agents

IN Baader, Ekkehard; Bickel, Martin; Guenzler-Pukall, Volkmar

PA Hoechst A.-G., Germany

SO Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DT Patent

LA German

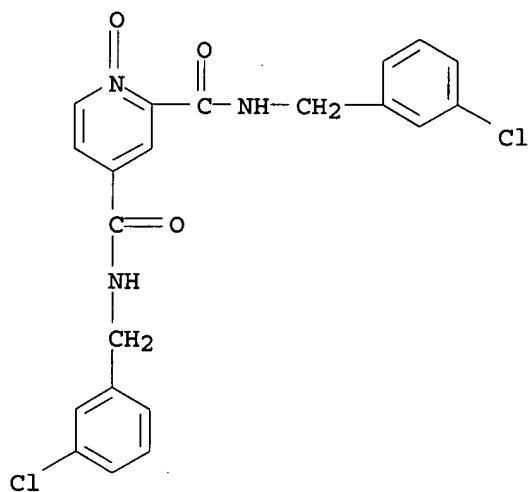
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 463592	A1	19920102	EP 1991-110343	19910622
	EP 463592	B1	19940817		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	DE 4020570	A1	19920102	DE 1990-4020570	19900628

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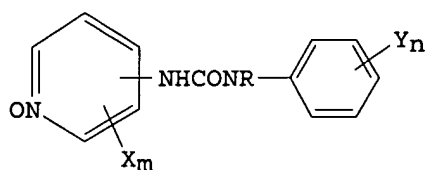
ES	2061118	T3	19941201	ES	1991-110343	19910622
FI	9103118	A	19911229	FI	1991-3118	19910626
FI	101070	B	19980415			
IL	98629	A1	19960514	IL	1991-98629	19910626
CZ	283782	B6	19980617	CZ	1991-1959	19910626
CA	2045868	AA	19911229	CA	1991-2045868	19910627
NO	9102541	A	19911230	NO	1991-2541	19910627
NO	178026	B	19951002			
NO	178026	C	19960110			
AU	9179356	A1	19920102	AU	1991-79356	19910627
AU	636990	B2	19930513			
CN	1057649	A	19920108	CN	1991-104308	19910627
CN	1038585	B	19980603			
BR	9102699	A	19920204	BR	1991-2699	19910627
ZA	9104958	A	19920325	ZA	1991-4958	19910627
HU	59104	A2	19920428	HU	1991-2158	19910627
HU	214627	B	19980428			
JP	04230264	A2	19920819	JP	1991-156562	19910627
JP	08032687	B4	19960329			
US	5260323	A	19931109	US	1992-978467	19921119
LV	10431	B	19960220	LV	1993-284	19930504
LT	3918	B	19960425	LT	1993-1464	19931112
PRAI	DE 1990-4020570	A	19900628			
	US 1991-721681	B1	19910626			
OS	MARPAT 116:214352					
IT	139994-12-0P					
	RL: SPN (Synthetic preparation); PREP (Preparation)					
	(preparation of, as fibrosuppressive and immunosuppressive agent)					
RN	139994-12-0	CAPLUS				
CN	2,4-Pyridinedicarboxamide, N,N'-bis[(3-chlorophenyl)methyl]-, 1-oxide					
	(9CI) (CA INDEX NAME)					



L4 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI

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AB Title compds. I (R = H, alkyl; when the pyridyl ring is attached at the 4position, x = halo, alkyl, alkoxy, haloalkyl, aminocarbonyl, etc. and Y = halo, alkyl, alkoxy, alkylthio, alkylsulfonyl, OH, trihalomethyl and m = 0, 1, 2 and n = 0-5; when the pyridyl ring is attached at the 3 position, X = Cl, MeO, MeCOCH₂NH and Y = halo and m, n = 0, 1) are prepared. Oxidation of N-phenyl-N'-(3-pyridyl)urea in EtOH with MCPBA gave N-phenyl-N'-(3-pyridyl-N-oxide)urea, which at 10⁻⁵M showed 52% loss of chlorophyll in wheat leaf, vs. 20% control. A wettable powder was formulated containing I 40, Na ligninsulfonate 20, and attapulgate clay 40%.

AN 1989:533995 CAPLUS

DN 111:133995

TI N-Phenyl-N'-(pyridinyl N-oxide)urea plant growth regulators

IN Henrie, Robert, II; Green, Christine M.; Sticker, Robert E.

PA FMC Corp., USA

SO U.S., 13 pp. Cont.-in-part of U.S. Ser. No. 586,574, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4787931	A	19881129	US 1986-875415	19860617
	EP 138983	A1	19850502	EP 1984-901649	19840320
	EP 138983	B1	19890510		
	R: DE, FR, GB				
	RO 93481	B3	19871231	RO 1984-120636	19840320
	ES 531094	A1	19850701	ES 1984-531094	19840329
	IL 71394	A1	19871220	IL 1984-71394	19840329
	CA 1234818	A1	19880405	CA 1984-450882	19840329
	ES 533325	A1	19860516	ES 1984-533325	19840612
	RO 89728	B3	19860730	RO 1984-116456	19841129
PRAI	US 1983-480055	A2	19830329		
	US 1984-586574	A2	19840306		

OS CASREACT 111:133995; MARPAT 111:133995

IT 121417-55-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

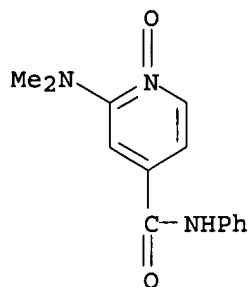
(preparation and reaction of, in preparation of urea plant growth inhibitors)

RN 121417-55-8 CAPLUS

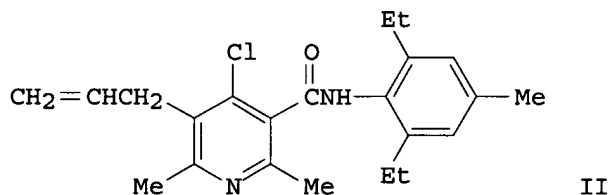
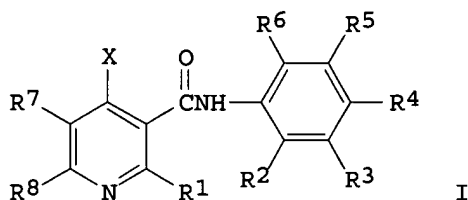
CN 4-Pyridinecarboxamide, 2-(dimethylamino)-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)

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L4 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Title compds. I [R₁ = C1-11 alkyl, alkenyl, alkynyl, cycloalkyl, alkoxyalkyl, alkylthioalkyl, haloalkyl, 5- or 6-membered heterocyclyl, (un)substituted Ph or aralkyl; R₂-R₆ = H, halo, cyano, NO₂, amino, alkyl, haloalkyl, OH, alkoxy, aryloxy, CO₂H, alkoxy carbonyl; R₇ = H, halo, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, (un)substituted Ph or aralkyl; R₈ = as given for R₁, or R₇R₈ = (CH₂)_m; m = 3, 4; X = halo] and their 1-oxides and salts are prepared as herbicides. 5-Allyl-N-(2,6-diethyl-4-methylphenyl)-1,4-dihydro-2,6-dimethyl-4-oxo-3-pyridinecarboxamide was refluxed in excess POCl₃ for 1 h to give allylchloro(diethylmethylphenyl)d imethylpyridinecarboxamide II. Addition of 50 weight parts II to 200 parts carrier containing talc 50, bentonite 25, Solpole-9047, 2, and Solpole-5039, 3 parts gave a wettable powder. As a 20-ppm aqueous dispersion applied to seedlings in a lab dish, II completely inhibited *Oryzae sativa*, *Echinochloa crus-galli*, and *Raphanus sativus*.

AN 1989:154162 CAPLUS

DN 110:154162

TI 4-Halopyridine-3-carboxamide derivatives and their herbicidal compositions

IN Yagihara, Hiroshi; Goto, Yukihiisa; Masamoto, Kazuhisa; Morishima, Yasuo; Osabe, Hirokazu

PA Daicel Chemical Industries, Ltd., Japan

SO Eur. Pat. Appl., 32 pp.

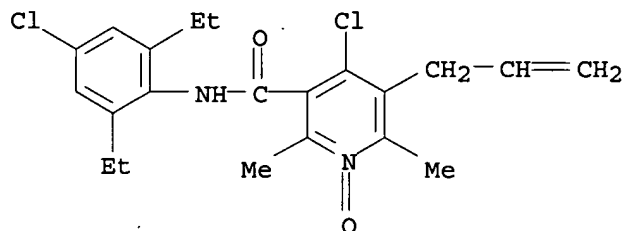
CODEN: EPXXDW

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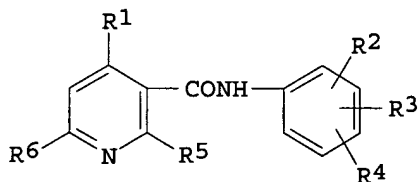
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DT Patent
LA English
FAN.CNT 1

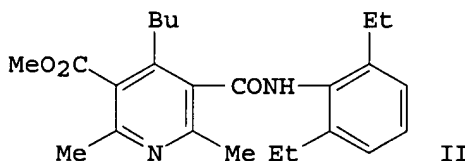
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 292990	A1	19881130	EP 1988-108501	19880527
	EP 292990	B1	19950201		
	R: DE, FR, GB				
	US 4978385	A	19901218	US 1988-199187	19880526
	JP 01207275	A2	19890821	JP 1988-131265	19880527
	JP 2557468	B2	19961127		
	CA 1320488	A1	19930720	CA 1988-567874	19880527
PRAI	JP 1987-131696	A	19870529		
	JP 1987-262333	A	19871016		
OS	MARPAT 110:154162				
IT	119766-03-9P				
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)				
RN	119766-03-9	CAPLUS			
CN	3-Pyridinecarboxamide, 4-chloro-N-(4-chloro-2,6-diethylphenyl)-2,6-dimethyl-5-(2-propenyl)-, 1-oxide (9CI) (CA INDEX NAME)				



L4 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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I



II

AB Nicotinamide derivs. (I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3, R4 = H, halo, cyano, alkyl, etc.; R5, R6 = alkyl, haloalkyl, cycloalkyl, aryl, etc.), useful as plant growth inhibitors, are prepared. A mixture of 2,6-Et2C6H2NHCOCH2COMe and pentanal in CH2Cl2 containing piperidine was stirred under cooling, treated with Na2SO4 to remove H2O, evaporated, and refluxed with Me 2-aminocrotonate in EtOH to give 65% dihydro ester, which was dehydrogenated with NaNO2 in HOAc at 20-25° to give 91% ester II. Refluxing a mixture of II and LiI in 2,6-lutidine gave 100% free acid, which was heated at 330-350° under N to give 84% nicotinamide

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derivative I (R1 = Bu, R2 = R3 = Et at 2,6-position, R4 = H, R5 = R6 = Me). I are effective in inhibiting the growth of barnyard grass at 20 ppm.

AN 1989:8049 CAPLUS

DN 110:8049

TI Preparation of nicotinamide derivatives as plant growth inhibitors

IN Goto, Yukihisa; Masamoto, Kazuhisa; Yagihara, Hiromu; Morishima, Yasuo; Osabe, Hirokazu

PA Daicel Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62283959	A2	19871209	JP 1986-127066	19860530
	JP 07025737	B4	19950322		
PRAI	JP 1986-127066		19860530		

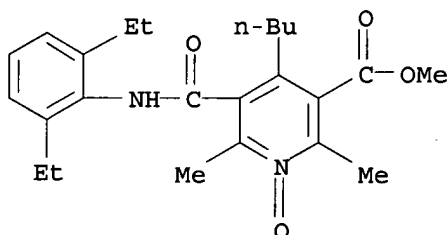
IT 116368-17-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

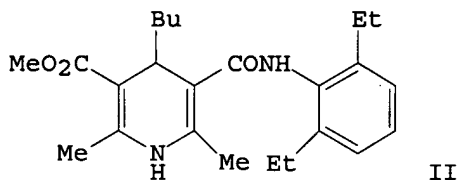
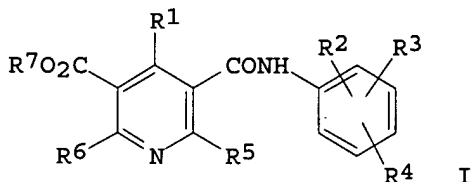
(preparation and saponification of)

RN 116368-17-3 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-butyl-5-[[(2,6-diethylphenyl) amino] carbonyl] - 2,6-dimethyl-, methyl ester, 1-oxide (9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Nicotinic acid derivs. (I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3, R4 = H, halo, cyano, alkyl, etc.; R5, R6 = alkyl, haloalkyl, alkoxyalkyl, etc.; R7 = H, alkyl), useful as plant growth inhibitors, are prepared
Cyclocondensation of 2,6-Et2C6H3NHCOCH2COMe with pentanal and MeC(NH2):CHCO2Me in EtOH gave 65% 1,4-dihydropyridine derivative II, which was treated with NaNO2 in HOAc at 25° to give 91% nicotinate I (R1 =

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Bu; R2 = H; R3, R4 = 2,6-Et2; R5 = R6 = R7 = Me), which showed 100% control of barnyard grass at 20 ppm as an aqueous dispersion.

AN 1988:549360 CAPLUS
DN 109:149360
TI Preparation of nicotinic acid derivatives as plant growth inhibitors
IN Goto, Yukihiisa; Masamoto, Kazuhisa; Yagihara, Hiromu; Morishima, Yasuo; Osabe, Hirokazu
PA Daicel Chemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63002978	A2	19880107	JP 1986-145583	19860620
	JP 07042272	B4	19950510		
PRAI	JP 1986-145583		19860620		

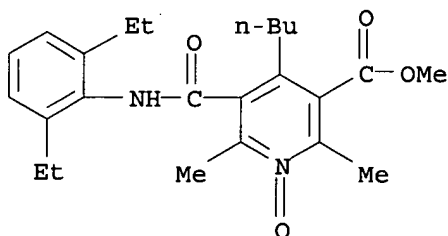
OS CASREACT 109:149360; MARPAT 109:149360

IT 116368-17-3P

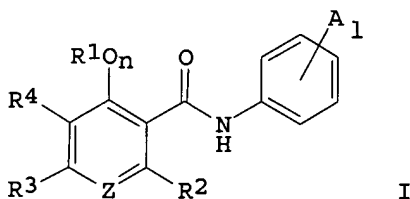
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant growth inhibitor)

RN 116368-17-3 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-butyl-5-[[[(2,6-diethylphenyl)amino]carbonyl]-2,6-dimethyl-, methyl ester, 1-oxide (9CI) (CA INDEX NAME)



L4 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Herbicidal compns. containing pyridine derivs. I [R1 = alkyl, alkenyl, alkynyl, haloalkyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkonylalkyl, cycloalkyl, (substituted) aralkyl, (substituted) aryl, 5- or 6-membered heterocyclyl; R2, R3 = halo-, alkoxy-, or cycloalkyl, (substituted)

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aralkyl, (substituted) aryl; n = 0, 1; when n = 0, R4 = H, and when n = 1, R4 = H, halo, alkyl, (substituted) aralkyl, (substituted) aryl; R3R4 = (CH2)m; m = 3, 4; A = H, halo, cyano, NO2, NH2, alkyl, haloalkyl, OH, alkoxy, aryloxy, CO2H, alkoxycarbonyl; l = 1-5; Z = N, NO] and at least one of (1) 2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine, (2) 2-(1-cyano-1-methylethylamino)-4-ethylamino-6-chloro-1,3,5-triazine(II), (3) 2-chloro-4,6-bis(ethylamino)-1,3,5-triazine, (4) 2-chloro-2',6'-diethyl-N-methoxymethylacetanilide, (5) 2-ethyl-6-methyl-N-(3-methoxy-2-propyl)chloroacetanilide, (6) Et N-chloroacetyl-N-(2,6-diethylphenyl)glycinate, (7) 3-(3,4-dichlorophenyl)-1,1-dimethylurea(III), and (8) 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea, particularly useful for corn, are described. A mixture containing 10 g/are I (R1 = Bu, R2 = R3 = Me, R4 = H, Al = 2,3-di-Me, n = 0, Z = N) (II) and 10 g II/are, applied postemergence, showed 100% control of Echinochloa crus-galli, Setaria viridis, and Portulaca oleracea, and no damage to corn, whereas the components by themselves were less effective. A wettable powder was formulated containing I (R1 = Bu, R2 = R3 = Me, R4 = H, Al = 2,6-di-Et, n = 0) 20, III 20, talc 40, bentonite 15, Sorpol-9047 2, and Sorpol-5039 3 weight parts.

AN 1988:488184 CAPLUS

DN 109:88184

TI Wide-spectrum synergistic herbicidal binary compositions containing N-phenylpyridine-3-carboxamide derivatives, for corn

IN Yagihara, Hiromu; Morishima, Yasuo; Osabe, Hirokazu; Ueda, Yoichiro; Goto, Yukihisa; Masamoto, Kazuhisa; Hirako, Yoshiyuki

PA Daicel Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

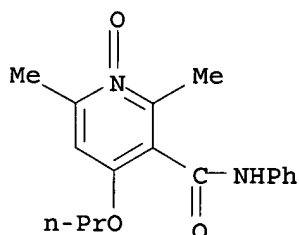
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

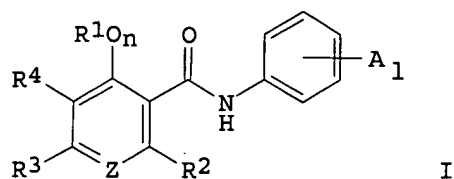
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63017813	A2	19880125	JP 1986-159730	19860709
PRAI	JP 1986-159730		19860709		
OS	MARPAT 109:88184				
IT	110727-39-4P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as component for wide-spectrum synergistic herbicidal compns.)				
RN	110727-39-4 CAPLUS				
CN	3-Pyridinecarboxamide, 2,6-dimethyl-N-phenyl-4-propoxy-, 1-oxide (9CI) (CA INDEX NAME)				



L4 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN-
GI

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AB Herbicidal compns. containing pyridine derivs. I [R1 = alkyl, alkenyl, alkynyl, haloalkyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkylalkyl, cycloalkyl, (substituted) aralkyl, (substituted) aryl, 5- or 6-membered heterocyclyl; R2, R3 = halo-, alkoxy-, or cycloalkyl, (substituted) aralkyl, (substituted) aryl; n = 0, 1; when n = 0, R4 = H; when n = 1, R4 = H, halo, alkyl, (substituted) aralkyl, (substituted) aryl; R3R4 = (CH2)m; m = 3, 4; A = H, halo, cyano, NO2, NH2, alkyl, haloalkyl, OH, alkoxy, aryloxy, CO2H, alkoxyalkyl; l = 1-5; Z = N, NO] and a second herbicide, are described. The second herbicide is at least one of (1) 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid (II), (2) 3-isopropyl-2,1,3-benzothiadiazin-4-one 2,2-dioxide, (3) 3-(3,4-dichlorophenyl)-1,1-dimethylurea, (4) 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea, (5) 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5-one, (6) Me 3-(1-allyloxyaminobutylidene)-6,6-dimethyl-2,4-dioxocyclohexanecarboxylate Na salt, (7) (±)-2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexene-1-one (III), (8) 2-[4-(3,5-dichloro-2-pyridyloxy)phenoxy]propionic acid, (9) Bu 2-[4-(5-trifluoromethyl-2-pyridyloxy)phenoxy]propionate, (10) Me 2-[4-(5-trifluoromethyl-2-pyridyloxy)phenoxy]propionate, (11) Me 2-[4-(2,4-dichlorophenoxy)phenoxy]propionate, (12) iso-Bu 2-[4-(4-chlorophenoxy)phenoxy]propionate, (13) Me 2-[4-(4-trifluoromethylphenoxy)phenoxy]propionate, (14) 2-chloro-2',6'-diethyl-N-(methoxyethyl)acetanilide, (15) 2-ethyl-6-methyl-N-(3-methoxy-2-propyl)chloroacetanilide, and (16) Et N-chloroacetyl-N-(2,6-diethylphenyl)glycinate. The compns. are especially useful for soybean. A mixture containing 10 g/are I (R1 = Pr, R2 = R3 = Me, R4 = H, A1 = 2,6-di-Et, n = 0, Z = N) and 5 g II/are, applied postemergence, showed 100% control of Digitaria sanguinalis, Setaria viridis, and Portulaca oleracea, 70-100% control of Echinochloa crus-galli and Chenopodium album and no damage to soybeans, whereas the components by themselves were less effective. A wettable powder was formulated containing I (R1 = Bu, R2 = R3 = Me, R4 = H, A1 = 2,6-di-Et, n = 0) 20, III 20, talc 40, bentonite 15, Sorpol-9047 2, and Sorpol-5039 3 weight parts.

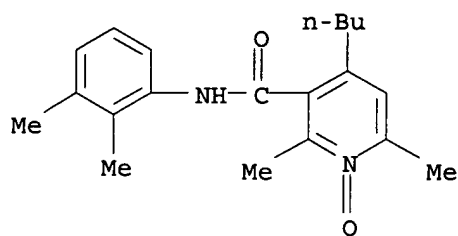
AN 1988:468852 CAPLUS
DN 109:68852
TI Wide-spectrum synergistic herbicidal binary compositions containing N-phenylpyridinecarboxamide derivatives, for soybeans
IN Yagihara, Hiromu; Morishima, Yasuo; Osabe, Hirokazu; Ueda, Yoichiro; Goto, Yukihisa; Masamoto, Kazuhisa; Hirako, Yoshiyuki
PA Daicel Chemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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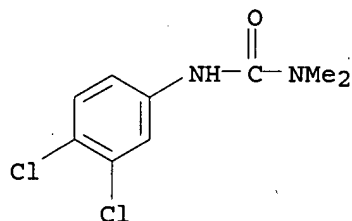
1/19/05

PI JP 63017811 A2 19880125 JP 1986-159728 . 19860709
PRAI JP 1986-159728 19860709
OS MARPAT 109:68852
IT **115454-58-5**
RL: BIOL (Biological study)
(herbicide composition containing, synergistic, for soybean)
RN 115454-58-5 CAPLUS
CN 3-Pyridinecarboxamide, 4-butyl-N-(2,3-dimethylphenyl)-2,6-dimethyl-,
1-oxide, mixt. with N'-(3,4-dichlorophenyl)-N,N-dimethylurea (9CI) (CA
INDEX NAME)
CM 1
CRN 115429-55-5
CMF C20 H26 N2 O2

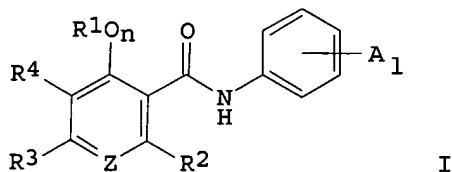


CM 2

CRN 330-54-1
CMF C9 H10 Cl2 N2 O



L4 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB Herbicidal compns. containing pyridine derivs. I [R1 = alkyl, alkenyl,

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alkynyl, haloalkyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkonylalkyl, cycloalkyl, (substituted) aralkyl, (substituted) aryl, 5- or 6-membered heterocyclyl; R₂, R₃ = halo-, alkoxy-, or cycloalkyl, (substituted) aralkyl, (substituted) aryl; n = 0, 1; when n = 0, R₄ = H, and when n = 1, R₄ = H, halo, alkyl, (substituted) aralkyl, (substituted) aryl; R₃R₄ = (CH₂)_m; m = 3, 4; A = H, halo, cyano, NO₂, NH₂, alkyl, haloalkyl, OH, alkoxy, aryloxy, CO₂H, alkoxyalkonyl; l = 1-5; Z = N, NO] and at least one of (1) 2-chloro-2',6'-diethyl-N-methoxymethylacetanilide (I), (2) α,α,α-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine, (3) 3,5-dinitro-N₄,N₄-sulfanylamide, (4) N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitroaniline, (5) 1,1-dimethyl-3-(α,α,α-trifluoro-m-tolyl)urea, (6) 3-(3,4-dichlorophenyl)-1,1-dimethylurea, and (7) 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea (III), particularly useful for cotton, are described. A mixture containing 10 g/are I (R₁ = Pr, R₂ = R₃ = Me, R₄ = H, A₁ = 2,6-di-Et, n = 0, Z = N) and 7.5 g II/are, applied post-emergence, showed 100% control of Echinochloa crus-galli, Setaria viridis, and Portulaca oleracea, and no damage on cotton, whereas the components by themselves were less effective. A wettable powder was formulated containing I (R₁ = Bu, R₂ = R₃ = Me, R₄ = H, A₁ = 2,6-di-Et, Z = NO, n = 0) 20, III 20, talc 40, bentonite 15, Sorpol-9047 2, and Sorpol-5039 3 weight parts.

AN 1988:468851 CAPLUS

DN 109:68851

TI Wide-spectrum synergistic herbicidal binary compositions containing N-phenylpyridine-3-carboxamide derivatives, for cotton

IN Yagihara, Hiromu; Morishima, Yasuo; Osabe, Hirokazu; Ueda, Yoichiro; Goto, Yukihisa; Masamoto, Kazuhisa; Hirako, Yoshiyuki

PA Daicel Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

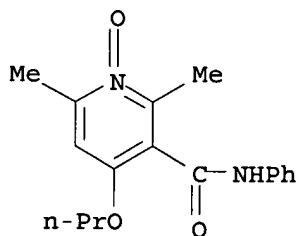
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63017812	A2	19880125	JP 1986-159729	19860709
PRAI	JP 1986-159729		19860709		
OS	MARPAT 109:68851				
IT	110727-39-4P				

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as component for wide-spectrum synergistic herbicidal binary compns.)

RN 110727-39-4 CAPLUS

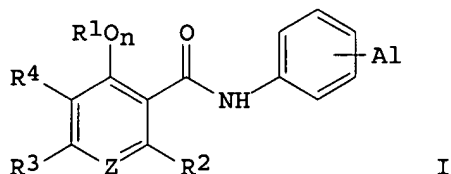
CN 3-Pyridinecarboxamide, 2,6-dimethyl-N-phenyl-4-propoxy-, 1-oxide (9CI)
(CA INDEX NAME)



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L4 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB Herbicide compns. containing pyridine derivs. I [R1 = alkyl, alkenyl, alkynyl, haloalkyl, alkoxyalkyl, alkylthioalkyl, alkoxyalkyl, cycloalkyl, aralkyl, (substituted) aryl, 5- or 6-membered heterocyclyl; R2, R3 = alkyl, haloalkyl, alkoxyalkyl, cycloalkyl, (substituted) aralkyl, (substituted) aryl; n = 0, 1; when n = 0, R4 = H; when n = 1, R4 = H, halo, alkyl, (substituted) aralkyl, (substituted) aryl; R3R4 = (CH2)m; m = 3, 4; A = H, halo, cyano, NO2, NH3, alkyl, haloalkyl, OH, alkoxy, aryloxy, CO2H, alkoxyalkyl; l = 1-5; Z = N, N:O] and at least one of 2-chloro-2',6'-diethyl-N-(butoxymethyl)acetanilide; 2-chloro-2',6'-diethyl-N-(propoxyethyl)acetanilide; 2-chloro-N-(2,6-diethylphenyl)-N-[3-methoxythiophen-2-yl)methyl]acetamide; 2-benzothiazol-2-yloxy-N-methylacetanilide; S-4-chlorobenzyl diethylthiocarbamate; S-ethylhexahydro[1H]azepine-1-carbothioate; S-(α,α -dimethylbenzyl)-1-piperidinecarbothioate; 4-(2,4-dichlorobenzoyl)-1,3-dimethyl[1H]pyrazol-5-yl p-toluenesulfonate; 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-phenacyloxy-pyrazole; 4-(2,4-dichloro-3-methylbenzoyl)-1,3-dimethyl-5-(p-methylphenacyl)oxy-pyrazole; 2-(β -naphthylloxy)propionanilide; 2-(2,4-dichloro-3-methylphenoxy)propionanilide; 3,7-dichloro-8-quinolinecarboxylic acid; N-(α,α -dimethylbenzyl)- α -bromo-tert-butylacetamide; and 1-(α,α -dimethylbenzyl)-3-(4-methylphenyl)urea, particularly useful for rice, are described. A mixture of 2.5 (no units given) I (R1 = Pr; R2 = R3 = Me; R4 = H, n = 0; Al = 2,6-di-Et) and 2.5 2-chloro-N-(2,6-diethylphenyl)-N-[(3-methoxythiophen-2-yl)methyl]acetamide showed 100% control of Echinochloa oryzicola and other weeds, whereas the components by themselves were less effective. Granules were formulated containing I (R1 = Bu; R2 = R3 = Me; R4 = H, n = 0; Al = 2,6-di-Et) 3, N-(α,α -dimethylbenzyl)- α -bromo-tert-butylacetamide 4, talc 60, bentonite 30, and ligninsulfonate 3 weight parts.

AN 1988:468849 CAPLUS

DN 109:68849

TI Wide-spectrum synergistic herbicidal binary compositions containing N-phenylpyridine-3-carboxamide derivatives, for rice

IN Yagihara, Hiromu; Morishima, Yasuo; Osabe, Hirokazu; Ueda, Yoichiro; Goto, Yukihisa; Masamoto, Kazuhisa; Hirako, Yoshiyuki

PA Daicel Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63005005	A2	19880111	JP 1986-150520	19860626
PRAI	JP 1986-150520		19860626		
OS	MARPAT 109:68849				

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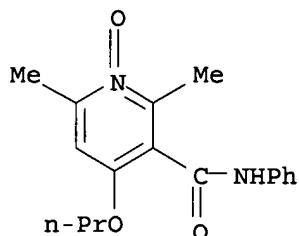
IT 110727-39-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

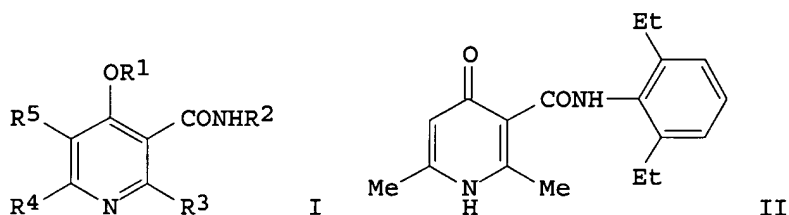
(preparation of, as component of synergistic herbicidal binary compns., for rice)

RN 110727-39-4 CAPLUS

CN 3-Pyridinecarboxamide, 2,6-dimethyl-N-phenyl-4-propoxy-, 1-oxide (9CI)
(CA INDEX NAME)



L4 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, aralkyl, etc.; R2 = (substituted) aryl; R3, R4 = alkyl, aralkyl, haloalkyl, cycloalkyl, etc.; R5 = H, halo, alkyl, (substituted) phenyl; R4R5 form a ring with (CH2)_n (n = 3, 4)], their oxides and salts, useful as plant growth inhibitors, are prepared Dihydrooxypyridinecarboxanilide II was heated with BuBr and K2CO3 in DMF at 90° for 2 h to give 82% I (R1 = Bu, R2 = 2,6-Et2C6H3, R3 = R4 = Me, R5 = H). The latter inhibited the growth of *Oryza sativa* by 75% at 20 ppm.

AN 1987:575886 CAPLUS

DN 107:175886

TI (4-Alkoxy-pyridin-3-yl)carboxanilides as plant growth inhibitors

IN Ueda, Yoichiro; Goto, Yukihiisa; Masamoto, Kazuhisa; Hirako, Yoshiyuki; Yagihara, Hiroshi; Morishima, Yasuo; Osabe, Hirokazu

PA Daicel Chemical Industries, Ltd., Japan

SO Fr. Demande, 62 pp.

CODEN: FRXXBL

DT Patent

LA French

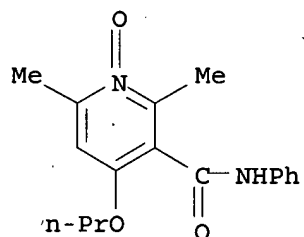
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2576306	A1	19860725	FR 1986-650	19860117
	FR 2576306	B1	19891208		

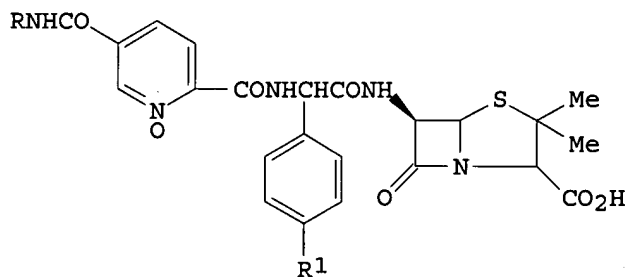
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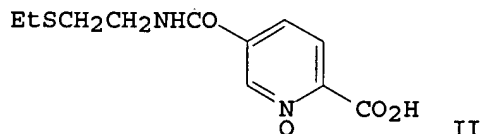
JP 62149663	A2	19870703	JP 1985-284744	19851217
JP 07010846	B4	19950208		
US 4730051	A	19880308	US 1986-819144	19860115
GB 2171097	A1	19860820	GB 1986-1034	19860116
GB 2171097	B2	19871216		
DE 3601121	A1	19860821	DE 1986-3601121	19860116
PRAI JP 1985-7665	A	19850118		
JP 1985-171673	A	19850802		
JP 1985-211821	A	19850925		
OS CASREACT 107:175886				
IT 110727-39-4P				
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant growth inhibitor)				
RN 110727-39-4	CAPLUS			
CN 3-Pyridinecarboxamide, 2,6-dimethyl-N-phenyl-4-propoxy-, 1-oxide (9CI)				
(CA INDEX NAME)				



L4 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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I



II

AB Ninety-one penicillin derivs. (I; R = alkyl, alkenyl, aryl, aralkyl, heterocycle, etc.; R1 = H, HO), effective bactericides at 0.1-12.5

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mg/ μ L, were prepared. Thus, 2 mmol $\text{ClCO}_2\text{CH}_2\text{CHMe}_2$ was added to a solution of 2 mmol II and 2 mmol Et_3N in DMF at -30° to -20° to give a mixed anhydride, which was treated with 2.4 mmol ampicillin trihydrate and 3 mmol Et_3N in aqueous DMF to give 700 mg I.Na ($\text{R} = \text{EtSCH}_2\text{CH}_2$).

DN 100:68067

PA Banyu Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND

DATE _____

APPLICATION NO.

DATE _____

PI JP 58131987

A2

19830806

JP 1982-14297

19820202

PRAI JP 1982-14297

19820202

IT 83644-25-1P

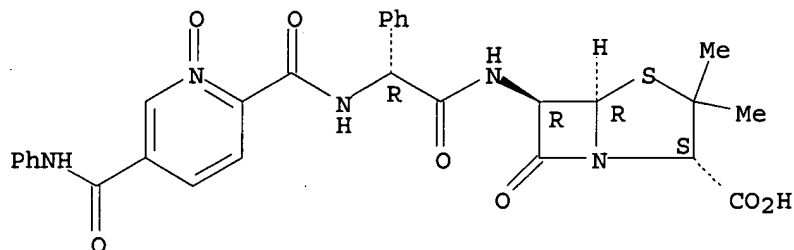
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antibacterial activity of)

RN 83644-25-1 CAPLUS

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-6-[[[[[1-oxido-5-[(phenylamino)carbonyl]-2-pyridinyl]carbonyl]amino]phenylacetyl]amino]-7-oxo-, monosodium salt, [2S-[2 α ,5 α ,6 β (S*)]]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

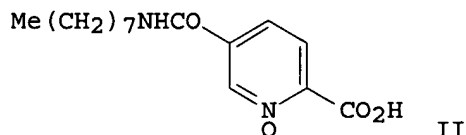
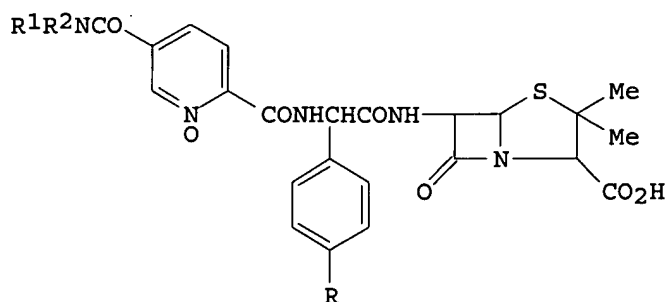


● Na

L4 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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AB Title compds. I (R = H, OH; R1, R2 = H, alkyl, allyl, aralkyl, cycloalkyl, alkoxyalkyl, R1R2N may form a ring), useful as bactericides (data given), were prepared Thus, amidn. of II with ampicillin gave, after treatment with 1N NaOH, Na salt of I (R = R1 = H, R2 = n-octyl).

AN 1982:615892 CAPLUS

DN 97:215892

TI Penicillin derivs. and their salts

PA Banyu Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57109792	A2	19820708	JP 1980-184006	19801226
PRAI	JP 1980-184006		19801226		
OS	CASREACT 97:215892				
IT	83644-48-8P				

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 83644-48-8 CAPLUS

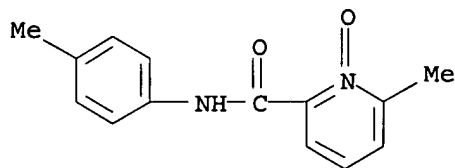
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-6-[[[1-oxido-5-[[[(phenylmethyl)amino]carbonyl]-2-pyridinyl]carbonyl]amino]phenylacetyl]amino]-7-oxo-, monosodium salt, [2S-[2 α ,5 α ,6 β (S*)]]-(9CI) (CA INDEX NAME)

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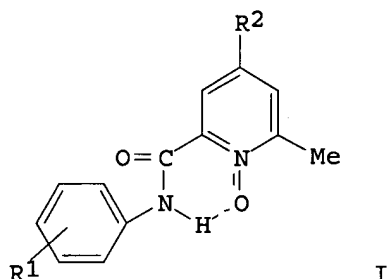
O=C(NCC1=CC=CC=C1)c2ccc([N+](=O)[O-])cc2C(=O)NCC1=CC=CC=C1C(=O)N[C@@H]2[C@H](C)[C@@H](C)S[C@H]2C(=O)O

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L4 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB The title compds. (I; 4-R1 = H, Br, Cl, COMe, NO2, Me, OMe, NMe2, R2 = H; R1 = H, R2 = OMe, NO2; 2-R1 = NO2, Cl, R2 = H) are strongly H-bonded as shown by D-isotope effects on their IR spectra. The bands for the H-bonded amide groups were linearly related to the Hammett substituent consts.

AN 1977:583817 CAPLUS

DN 87:183817

TI Anilides of 6-methyl-picolinic acid N-oxide. Infrared investigations

AU Brzezinski, Bogumil; Zundel, Georg

CS Inst. Chem., A. Kickiewicz Univ., Poznan, Pol.

SO Zeitschrift fuer Physikalische Chemie (Muenchen, Germany) (1977),
105(3-4), 125-33

CODEN: ZPCFAX; ISSN: 0044-3336

DT Journal

LA English

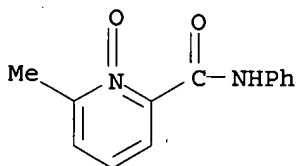
IT 56387-82-7

RL: PRP (Properties)

(IR spectra of, hydrogen bond in relation to)

RN 56387-82-7 CAPLUS

CN 2-Pyridinecarboxamide, 6-methyl-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)



L4 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN
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CODEN: ROCHAC; ISSN: 0035-7677

DT Journal

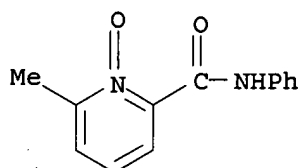
LA English

IT 56387-82-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 56387-82-7 CAPLUS

CN 2-Pyridinecarboxamide, 6-methyl-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)



L4 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN

GI For diagram(s), see printed CA Issue.

AB Et 2-methylnicotinate (I) warmed with H₂O₂ in AcOH formed its 1-oxide, b₄ 152°, which was subjected to the rearrangement reaction in Ac₂O to yield 66.5% Et 2-acetoxymethylnicotinate (II), b₃ 133-6°, and a trace of by-product, Et 2-methyl-5-acetoxynicotinate (III). Hydrolysis of 10 g. II (with a trace of III) by refluxing 3 hrs. with 30% H₂SO₄ and neutralization of the mixture to pH 2 with NaHCO₃ precipitated 0.75 g. 2-methyl-5-hydroxynicotinic acid (IV), m. 305-7° (from hydrolysis of III), and the filtrate extracted with CHCl₃ yielded 2.5 g. of the desired 2-hydroxymethylnicotinic acid lactone (V), m. 141-2°. Hydrolysis of 170 g. II by refluxing 7 hrs. with EtOH-KOH yielded 63 g. 2-hydroxymethylnicotinic acid (VI), m. 153-4° (decomposition), and from the filtrate 15.3 g. IV. Sublimation of VI at its decomposition point gave a quant. yield of V. The structures of IV-VI were confirmed by both ultraviolet and infrared absorption data, and further confirmation of the structure of IV came from its decarboxylation by heating at 310-20° to give 2,5-Me(HO)C₅H₃N, m. 168-8.5°, identical with an authentic sample by mixed m.p. and infrared spectrum. The 2nd title compound (VII) was also prepared from I. I (200 g.) reduced in the usual way with LiAlH₄ in ether yielded 119 g. 2,3-Me(HOCH₂)C₅H₃N (VIII), b₉ 139-40°, and a by-product 2,3-Me₂C₅H₃N, b₅ 35°; picrate, m. 187-8°, identical with an authentic sample. VIII (111 g.) refluxed 2.5 hrs. with SOCl₂ and the resulting 2,3-Me(ClCH₂)C₅H₃N without isolation refluxed 5 hrs. with KCN and KI in EtOH yielded 88.6 g. 2,3-Me(NCCH₂)C₅H₃N (IX), b₁₀ 136-7°, n_{25D} 1.5255; picrate, m. 149-9.5°. Acid hydrolysis of 45 g. IX by passing HCl gas 1.5 hrs. into its EtOH solution in the cold, and also during 5 hrs. refluxing yielded 43.4 g. 2,3-Me(EtO₂CCH₂)C₅H₃N (X), b₇ 124-5°, n_{25D} 1.4982; picrate, m. 154-5.5°. Heating 43.4 g. X 11 hrs. at 80-5° on a water bath with H₂O₂ in AcOH yielded 33 g. corresponding 1-oxide (XI), b₄ 140-50°, m. 54-9°, and this (26.7 g.) submitted to the rearrangement reaction with Ac₂O yielded 24.2 g. 2,3-(AcOCH₂)(EtO₂CCH₂)C₅H₃N (XII), b₇ 171-3°, n_{26D} 1.4942; picrolonate, m. 122-3° (decomposition). Finally, refluxing 5.9 g. XII 9 hrs. with EtOH-KOH yielded 1.3 g. of the desired VII, m. 118-19°. The structures of VII, IX, and X were confirmed by both ultraviolet and infrared absorption data, and those of XI and XII by ultraviolet data. In the hope of obtaining compds. possessing hypotensive action, analogs of 2-azabicyclo[4.3.0]nonane (Rice and Grogan, CA 53, 1326e) were prepared from V and VII. V heated at about

1/19/05

200° with twice the calculated amount of RNH₂ gave N:CH.CH:CH.C:C.CH₂.NR.CO (XIII) (R, % yield, and m.p. or b.p./mm. of XIII given): Ph, 74, 180.5-1.5°; PhCH₂, 58.7, 140-1°; Me₂NCH₂CH₂, 93.3, 72-3°; Et₂NCH₂CH₂, 92.8, 123-6°/0.03; iso-Pr₂NCH₂CH₂, 55, 142-3°/0.04; CH₂.(CH₂)₃.NCH₂CH₂, 93, 95.5-7.0°; Me₂N(CH₂)₃, 85, 151-4°/0.28; and CH₂.(CH₂)₃.N(CH₂)₃, 81.8, 175-7°/0.01 VII used in place of V gave N:CH.CH:CH.C:C.CH₂.NR.CO.CH₂ (XIV) (R, % yield and m.p. or b.p. of XIV given): Ph, 53, 131-2°; PhCH₂, 61, 117-18°; Me₂N(CH₂)₂, 68, b. 140-50°; Et₂N(CH₂)₂, 62, b. 145-55°; and iso-Pr₂N(CH₂)₂, 50, b. 165-70°. NH₃-EtOH in place of RNH₂ gave with V instead of XIII (R = H), 2,3-(HOCH₂)(H₂NCO)C₅H₃N (XV), m. 146-7° (0.45 g. from 0.5 g. V), which gave off NH₃ on heating to about 150° and reverted to V. NH₃-EtOH with VII gave the corresponding 2,3-(HOCH₂)(H₂NCOCH₂)C₅H₃N (XVI), m. 154-5° (2.1 g. from 2 g. VII), but on heating 30 min. to 160° only a trace of NH₃ evolved and XVI remained unchanged. To determine whether a derivative of XV would undergo deamination to a lactone (as did

XV) or dehydration to a lactam, 2,3-(HOCH₂)(PhCH₂NHCO)C₅H₃N (XVII) was prepared I (8 g.) and 10.3 g. PhCH₂NH₂ heated 30 hrs. at 150-60° yielded 9.3 g. 2,3-Me(PhCH₂NHCO)C₅H₃N (XVIII), m. 117-18°, which was oxidized with H₂O₂ in AcOH to the corresponding 1-oxide (XIX), m. 175-6°, and this (3.6 g.) with Ac₂O rearranged to 1 g. 2,3-(AcOCH₂)(PhCH₂NHCO)C₅H₃N (XX), b. 0.02-0.03 220-30° (bath temperature); picrolonate, m. 147-8° (decomposition). Hydrolysis of XX by refluxing 11 hrs. with EtOH-KOH gave an oil, probably XVII, but this distilled in vacuo failed to give either V or the lactam XIII (R = PhCH₂). From XIII were prepared N:CH.CH:CH.C:C.CH₂.NR.CH₂ (XXI) by reduction with LiAlH₄ in ether (R,

%

yield and m.p. or b.p. of XXI given): Ph, 58.4, 145.5-6.5°; PhCH₂, 73.7, 161-3°/3; Me₂N(CH₂)₂, 61.2, 135-6°, HCl salt m. 261-2°, MeI salt m. 205°; Et₂N(CH₂)₂, 55, 132-3°/4; iso-Pr₂N(CH₂)₂, 58.2, 134°/3.5; CH₂.(CH₂)₃.N(CH₂)₂, 49.5, 153-4°/3, HCl salt m. 264-6°, MeI salt m. 178.5-9.5°; Me₂N(CH₂)₃, 49, 115-22°/1.5; and CH₂.(CH₂)₃.N(CH₂)₃, 47, 130-2°/0.01, MeI salt m. 215°, tripicrate m. 211-12° (decomposition). Similar reduction of XIV gave N:CH.CH:CH.C:C.CH₂.NR.CH₂CH₂ (XXII)

[R, % yield, and b1 (bath temperature) of XXII given]: Me₂N(CH₂)₂, 60, 110-20°; Et₂N(CH₂)₂, 63, 120-30°; and iso-Pr₂N(CH₂)₂, 45, 130-40°. Some XXI and XXII possessed a fairly strong hypotensive action. Finally, hydrogenation of the pyridine ring of XXI [R = Me₂N(CH₂)₂] by catalytic reduction (PtO₂) and by Na in EtOH resulted in oils, b2.5 97-9° [tripicrate, m. 219° (decomposition)] and b2 97-9° [tripicrate, m. 245-6° (decomposition)], resp., perhaps cis-trans isomers. Infrared data for XV, XVI, XVIII-XX, and ultraviolet data for XV, XVI, XVIII, and XIX confirmed their structures.

AN 1961:65046 CAPLUS

DN 55:65046

OREF 55:12401b-i,12402a-e

TI Syntheses of 2-hydroxymethylnicotinic acid lactone, 2-hydroxymethylpyridine-3-acetic acid lactone, and some of their derivatives

AU Sato, Yoshinobu; Iwashige, Tadahiro; Miyadera, Tetsuo

CS Sankyo Co., Tokyo

SO Chemical & Pharmaceutical Bulletin (1960), 8, 427-35

CODEN: CPBTAL; ISSN: 0009-2363

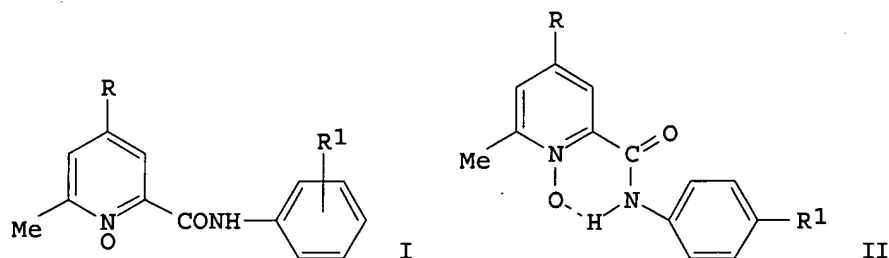
DT Journal

LA Unavailable

IT 100870-27-7, Nicotinamide, N-benzyl-2-methyl-, 1-oxide

10015861

1/19/05



AB The PMR spectra of 11 anilides of 6-methylpicolinic acid N-oxides I (R = H, R1 = 4-NMe2, -OMe, -Me, -H, -Cl, -Br, -COMe, -NO2, 2-NO2; R = NO2, OMe, R1 = H) were determined in CHCl3 and the influence of temperature, concentration, and

substituents on the chemical shifts of the N-H protons investigated. Proton-proton coupling consts. are reported. The structure of the p-substituted anilides was found to be II with rapid rotation around the N-aryl bond resulting in an averaged signal for the 2 ortho Ph protons.

AN 1977:15920 CAPLUS

DN 86:15920

TI Proton NMR. Studies on intramolecular hydrogen bonding in anilides of 6-methylpicolinic acid N-oxide

AU Brzezinski, Bogumil

CS Inst. Chem., A. Mickiewicz Univ., Poznan, Pol.

SO Organic Magnetic Resonance (1976), 8(6), 283-6

CODEN: ORMRBD; ISSN: 0030-4921

DT Journal

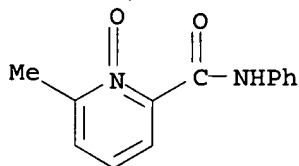
LA English

IT 56387-82-7

RL: PRP (Properties)
(NMR spectrum of)

RN 56387-82-7 CAPLUS

CN 2-Pyridinecarboxamide, 6-methyl-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)



L4 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2005 ACS on STN

GI For diagram(s), see printed CA Issue.

AB I (R1 = H, OMe, NO2; R2 = H, Cl, NO2; R3 = H, Cl, Br, Me, Ac, OMe, OBU, NMe2, NO2; R4 = H, Cl) (14 compds.) were obtained from the appropriate acid, (COCl)2, and substituted PhNH2 in yields of 63-91%.

AN 1975:496958 CAPLUS

DN 83:96958

TI Synthesis of anilides of 6-methyl-4-R-picolinic acid N-oxides

AU Brzezinski, Bogumil; Barczynski, Piotr

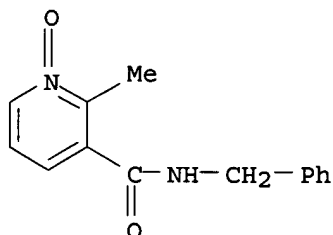
CS Inst. Chem., A. Mickiewicz Univ., Poznan, Pol.

SO Roczniki Chemii (1975), 49(3), 631-3

10015861

1/19/05

(preparation of)
RN 100870-27-7 CAPLUS
CN Nicotinamide, N-benzyl-2-methyl-, 1-oxide (6CI) (CA INDEX NAME)



=> file uspatall
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
160.78	323.16

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-23.36	-23.36

CA SUBSCRIBER PRICE

FILE 'USPATFULL' ENTERED AT 13:24:17 ON 19 JAN 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 13:24:17 ON 19 JAN 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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(FILE 'HOME' ENTERED AT 13:17:27 ON 19 JAN 2005)

FILE 'REGISTRY' ENTERED AT 13:20:23 ON 19 JAN 2005

L1 STRUCTURE UPLOADED
L2 18 S L1
L3 381 S L1 FUL

FILE 'CAPLUS' ENTERED AT 13:20:47 ON 19 JAN 2005

L4 32 S L3

FILE 'USPATFULL, USPAT2' ENTERED AT 13:24:17 ON 19 JAN 2005

=> s l3

L5 21 L3

=> d abs bib fhitr 1-21

L5 ANSWER 1 OF 21 USPATFULL on STN

AB The present invention is directed to substituted nicotinamides and
analogous thereof, represented by Formula V: ##STR1##

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

Ar' and Ar are independently optionally substituted aryl or optionally

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substituted heteroaryl, provided that the ring structure of said optionally substituted heteroaryl comprises not more than two nitrogen atoms; and

R.sub.11 is hydrogen; or alkyl, cycloalkyl, aryl or heteroaryl, each of which is optionally substituted.

The present invention also relates to the discovery that compounds having Formula V are activators of caspases and inducers of apoptosis. Therefore, the compounds of this invention may be used to induce cell death in a variety of clinical conditions in which uncontrolled growth and spread of abnormal cells occurs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

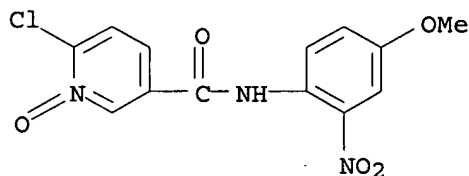
AN 2004:299977 USPATFULL
TI Substituted nicotinamides and analogs as activators of caspases and inducers of apoptosis and the use thereof
IN Cai, Sui Xiong, San Diego, CA, UNITED STATES
Drewe, John A., Carlsbad, CA, UNITED STATES
PA Cytovia, Inc. (U.S. corporation)
PI US 2004235846 A1 20041125
AI US 2004-876618 A1 20040628 (10)
RLI Division of Ser. No. US 2001-769420, filed on 26 Jan 2001, GRANTED, Pat. No. US 6794397
PRAI US 2000-177648P 20000127 (60)
DT Utility
FS APPLICATION
LREP STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., WASHINGTON, DC, 20005
CLMN Number of Claims: 61
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 2269

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 352228-60-5P

(preparation of benzamides, nicotinamides, pyrimidinecarboxamides, pyrrolylcarboxamides, and analogs as activators of caspase and inducers of apoptosis and use thereof)

RN 352228-60-5 USPATFULL
CN 3-Pyridinecarboxamide, 6-chloro-N-(4-methoxy-2-nitrophenyl)-, 1-oxide (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 21 USPATFULL on STN
AB Novel compounds that are useful for targeting chemokine receptors are disclosed. These compounds are complex tertiary amines.

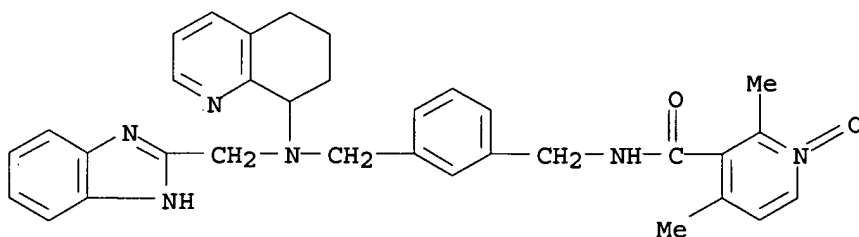
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2004:280906 USPATFULL
TI Chemokine receptor binding heterocyclic compounds

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IN Bridger, Gary, Bellingham, WA, UNITED STATES
Skerlj, Renato, Vancouver, CANADA
Kaller, Al, Vancouver, CANADA
Harwig, Curtis, Vancouver, CANADA
Bogucki, David, Surrey, CANADA
Wilson, Trevor R., Langley, CANADA
Crawford, Jason, Vancouver, CANADA
McEachern, Ernest J., White Rock, CANADA
Atsma, Bem, Abbotsford, CANADA
Nan, Siqiao, Richmond, CANADA
Zhou, Yuanxi, Surrey, CANADA
Schols, Dominique, Herent, BELGIUM
Smith, Christopher Dennis, Toronto, CANADA
Di Fluri, Maria Rosaria, Burnaby, CANADA
PI US 2004220207 A1 20041104
AI US 2004-858910 A1 20040601 (10)
RLI Division of Ser. No. US 2001-957682, filed on 17 Sep 2001, PENDING
PRAI US 2000-232891P 20000915 (60)
US 2000-234510P 20000922 (60)
DT Utility
FS APPLICATION
LREP MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO,
CA, 92130-2332
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 9022
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 405230-07-1P, AMD 11037
(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and
benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor
antagonists for treatment of HIV and FIV infection)
RN 405230-07-1 USPATFULL
CN 3-Pyridinecarboxamide, N-[[3-[[[(1H-benzimidazol-2-ylmethyl) (5,6,7,8-
tetrahydro-8-quinolinyl) amino]methyl]phenyl]methyl]-2,4-dimethyl-,
1-oxide, trihydrobromide (9CI) (CA INDEX NAME)



● 3 HBr

L5 ANSWER 3 OF 21 USPATFULL on STN
AB Disclosed are compounds of the formula ##STR1##

wherein the variables R.sub.N, R.sub.C, R.sub.1, R.sub.25, R.sub.2, and
R.sub.3 are as defined herein. These compounds have activity as

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inhibitors of beta-secretase and are therefore useful in treating a variety of disorders such as Alzheimer's Disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2004:222108 USPATFULL
TI N,N'-substituted-1,3-diamino-2-hydroxypropane derivatives
IN John, Varghese, San Francisco, CA, UNITED STATES
Maillard, Michel, Redwood Shores, CA, UNITED STATES
Jagodzinska, Barbara, Redwood City, CA, UNITED STATES
Beck, James, Kalamazoo, MI, UNITED STATES
Gailunas, Andrea, Burlingame, CA, UNITED STATES
Freskos, John, Clayton, MO, UNITED STATES
Mickelson, John, Mattawan, MI, UNITED STATES
Samala, Lakshman, Portage, MI, UNITED STATES
Sealy, Jennifer, Burlingame, CA, UNITED STATES
TenBrink, Ruth, Kalamazoo, MI, UNITED STATES
Fang, Lawrence, Foster City, CA, UNITED STATES
Hom, Roy, San Francisco, CA, UNITED STATES
PI US 2004171881 A1 20040902
AI US 2002-291318 A1 20021108 (10)
PRAI US 2001-337122P 20011108 (60)
US 2001-344086P 20011228 (60)
US 2002-345635P 20020103 (60)
DT Utility
FS APPLICATION
LREP Steven J. Sarussi, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300
S. Wacker Drive, Chicago, IL, 60606
CLMN Number of Claims: 346
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 37489

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

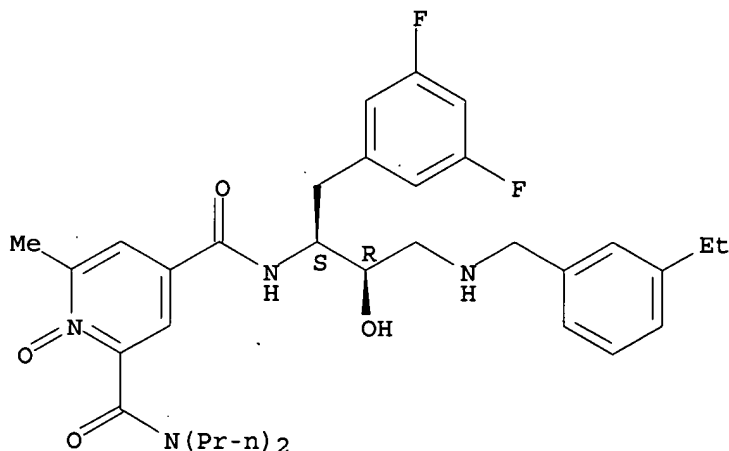
IT 527729-87-9P

(preparation of N,N'-substituted-1,3-diamino-2-hydroxypropanes for treating Alzheimer's disease)

RN 527729-87-9 USPATFULL

CN 2,4-Pyridinedicarboxamide, N4-[(1S,2R)-1-[(3,5-difluorophenyl)methyl]-3-[[[(3-ethylphenyl)methyl]amino]-2-hydroxypropyl]-6-methyl-N2,N2-dipropyl-, 1-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L5 ANSWER 4 OF 21 USPATFULL on STN

AB Compounds which modulate chemokine receptor activities are disclosed.
These compounds are preferably tertiary amines comprising tetrahydroquinoline and benzimidazole.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2004:221866 USPATFULL

TI Chemokine receptor binding heterocyclic compounds

IN Bridger, Gary, Bellingham, WA, UNITED STATES

Skerlj, Renato, Vancouver, CANADA

Kaller, Al, Vancouver, CANADA

Harwig, Curtis, White Rock, CANADA

Bogucki, David, Surrey, CANADA

Wilson, Trevor R., Langley, CANADA

Crawford, Jason, Vancouver, CANADA

McEachern, Ernest J., White Rock, CANADA

Atsma, Bem, Abbotsford, CANADA

Nan, Siqiao, Richmond, CANADA

Zhou, Yuanxi, Surrey, CANADA

Schols, Dominique, Herent, BELGIUM

Smith, Christopher Dennis, Vancouver, CANADA

Di Fluri, Maria Rosaria, Burnaby, CANADA

PI US 2004171638 A1 20040902

AI US 2004-799386 A1 20040311 (10)

RLI Continuation of Ser. No. US 2002-31812, filed on 28 Mar 2002, GRANTED,
Pat. No. US 6734191

DT Utility

FS APPLICATION

LREP MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO,
CA, 92130-2332

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 6612

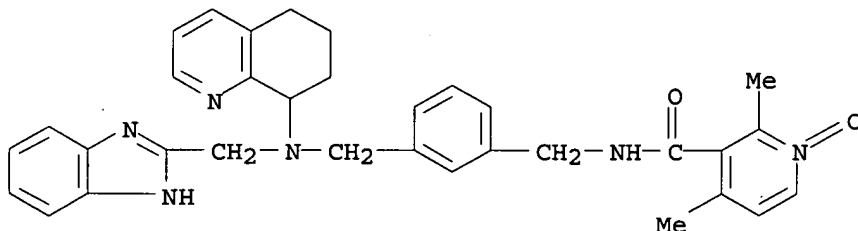
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 405230-07-1P, AMD 11037

(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor antagonists for treatment of HIV and FIV infection)

RN 405230-07-1 USPATFULL

CN 3-Pyridinecarboxamide, N-[[3-[[[(1H-benzimidazol-2-ylmethyl) (5,6,7,8-tetrahydro-8-quinoliny]amino)methyl]phenyl]methyl]-2,4-dimethyl-, 1-oxide, trihydrobromide (9CI) (CA INDEX NAME)



●3 HBr

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L5 ANSWER 5 OF 21 USPATFULL on STN

AB Heterocyclic dicarboxylic acid diamide derivative represented by the general formula (I): ##STR1##

wherein R^{sup.1}, R^{sup.2} and R^{sup.3} represent each H, optionally halogenated C_{sub.3-6} cycloalkyl, etc.; Het represents a 5- or 6-membered heterocycle; X and Y represent each halocyano, nitro, optionally halogenated C_{sub.3-6}, cycloalkyl, optionally substituted phenyl, an optionally substituted heterocycle, etc; n is from 0 to 3; m is from 1 to 5; Z^{sup.1} and Z^{sup.2} represent each O or S; and B^{sup.1} to B^{sup.4} represent each C or N. Agricultural/horticultural insecticides having an excellent controlling effect on pest insects such as diamond-back moth (*Plutella xylostella*) and tobacco cutworm (*Spodoptera litura*).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2004:141188 USPATFULL

TI Heterocyclic dicarboxylic acid diamide derivatives, agricultural/horticultural insecticides and method of using the same

IN Katsuhira, Takeshi, Kawachinagano, JAPAN

Furuya, Takashi, Izumisano, JAPAN

Gotoh, Makoto, Sakai, JAPAN

Tohnishi, Masanori, Sakai, JAPAN

Takaishi, Hideo, Nishinomiya, JAPAN

Sakata, Kazuyuki, Kawachinagano, JAPAN

Morimoto, Masayuki, Kawachinagano, JAPAN

Seo, Akira, Hashimoto, JAPAN

PA Nihon Nohyaku Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)

PI US 6747041 B1 20040608

WO 2001000575 20010104

AI US 2002-18463 20020410 (10)

WO 2000-JP4136 20000623

PRAI JP 1999-179035 19990624

DT Utility

FS GRANTED

EXNAM Primary Examiner: Berch, Mark L.; Assistant Examiner: Habte, Kahsay

LREP White, Jr., Paul E., Manelli Denison & Selter PLLC

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 3786

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 314762-71-5P

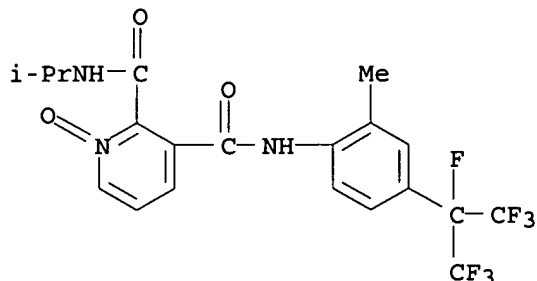
(preparation of heterocyclic dicarboxylic acid diamide derivs. as agricultural and horticultural insecticides)

RN 314762-71-5 USPATFULL

CN 2,3-Pyridinedicarboxamide, N2-(1-methylethyl)-N3-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

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L5 ANSWER 6 OF 21 USPATFULL on STN

AB The invention concerns compounds of general formula (1) wherein: n, G, Q.sub.1, Q.sub.2, X.sub.1, X.sub.2, Y and Z are as defined in the description, the method for preparing said compounds, fungicide compositions comprising said compounds and methods for treating plants using said compounds or compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2003:271505 USPATFULL

TI Picolinic acid derivatives and their use as fungicides

IN Nieto-Roman, Francisco, Palencia, SPAIN

Vors, Jean-Pierre, Lyon, FRANCE

Villier, Alain, Saint Didier au Mont d'Or, FRANCE

Lachaise, Helene, Lyon, FRANCE

Mousques, Adeline, Lyon, FRANCE

Hartmann, Benoit, Sainte-Foy-Les-Lyon, FRANCE

Hutin, Pierre, Lyon, FRANCE

Molina, Jose Lorenzo, Munich, GERMANY, FEDERAL REPUBLIC OF

Muller, Benoit, Lyon, FRANCE

PI US 2003191113 A1 20031009

AI US 2002-181842 A1 20020708 (10)

WO 2001-FR33 20010105

PRAI FR 2000-140 20000106

DT Utility

FS APPLICATION

LREP OSTROLENK FABER GERB & SOFFEN, 1180 AVENUE OF THE AMERICAS, NEW YORK, NY, 100368403

CLMN Number of Claims: 26

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 2727

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 349470-86-6P

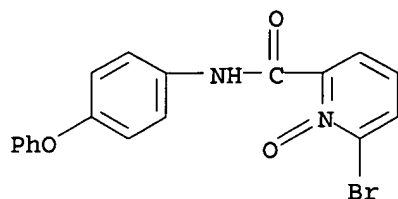
(preparation of picolinic acid derivs. for agrochem. and therapeutic use as fungicides)

RN 349470-86-6 USPATFULL

CN 2-Pyridinecarboxamide, 6-bromo-N-(4-phenoxyphenyl)-, 1-oxide (9CI) (CA INDEX NAME)

10015861

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L5 ANSWER 7 OF 21 USPATFULL on STN

AB Pharmaceutical compositions comprising an inhibitor of ras farnesylation of formula (I) wherein, R.sup.1 is for example H and further values as defined in the specification; R.sup.2 is for example H and further values as defined in the specification; R.sup.3 is for example H or a substituent having values as defined in the specification; p is 0-3 in which R.sup.3 values can be the same or different; L is a linking moiety for example --CO--NH.sub.2-- and further values as defined in the specification; A is selected from phenyl; naphthyl; a 5-10 membered monocyclic or bicyclic heteroaryl ring containing up to 5 heteroatoms where the heteroatoms are independently selected from O, N and S; or a --S--S--dimer thereof when R.sup.2=H; or an enantiomer, diastereoisomer, pharmaceutically acceptable salt, prodrug or solvate thereof together with a pharmaceutically acceptable diluent or carrier. A particular use is cancer therapy. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2003:89396 USPATFULL
TI 4-mercaptopyrrolidine derivatives as farnesyl transferase inhibitors
IN Davies, David Huw, Macclesfield, UNITED KINGDOM
Boyle, Francis Thomas, Macclesfield, UNITED KINGDOM
Wardleworth, James Michael, Macclesfield, UNITED KINGDOM
Kenny, Peter Wedderburn, Macclesfield, UNITED KINGDOM
Scholes, Peter Beverley, Macclesfield, UNITED KINGDOM
Matusiak, Zbigniew Stanely, Macclesfield, UNITED KINGDOM
PA Zeneca Limited, London, UNITED KINGDOM (non-U.S. corporation)
PI US 6541491 B1 20030401
AI US 2000-725964 20001130 (9)
RLI Division of Ser. No. US 11135, now patented, Pat. No. US 6232338
PRAI GB 1995-15975 19950804
DT Utility
FS GRANTED
EXNAM Primary Examiner: Powers, Fiona T.
LREP Finnegan, Henderson, Farabow, Garrett & Dunner, LLP
CLMN Number of Claims: 14
ECL Exemplary Claim: 1,9,11
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 3819

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 188354-08-7P

(preparation of 2-aminomethyl-4-mercaptopyrrolidines and analogs as farnesyl transferase inhibitors)

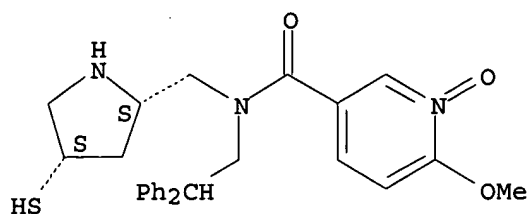
RN 188354-08-7 USPATFULL

CN 3-Pyridinecarboxamide, N-(2,2-diphenylethyl)-N-[(4-mercapto-2-pyrrolidinyl)methyl]-6-methoxy-, 1-oxide, (2S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10015861

1/19/05



L5 ANSWER 8 OF 21 USPATFULL on STN

AB Compounds which modulate chemokine receptor activities are disclosed. These compounds are preferably tertiary amines comprising tetrahydroquinoline and benzimidazole.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2003:38375 USPATFULL

TI Chemokine receptor binding heterocyclic compounds

IN Bridger, Gary, Bellingham, WA, UNITED STATES

Skerlj, Renato, Vancouver B.C., CANADA

Kaller, Al, Vancouver, British Columbia, CANADA

Harwig, Curtis, White Rock British Columbia, CANADA

Bogucki, David, Surrey British Columbia, CANADA

Wilson, Trevor R., Langley British Columbia, CANADA

Crawford, Jason, Vancouver British Columbia, CANADA

McEachern, Ernest J., White Rock, CANADA

Astma, Bem, Abbotsford B.C., CANADA

Nan, Siqiao, Richmond, CANADA

Zhou, Yuanxi, Surrey, CANADA

Smith, Christopher Deanis, Vancouver, CANADA

Fluri, Rosaria Maria Di, Bumaby, CANADA

PI US 2003028022 A1 20030206

US 6734191 B2 20040511

AI US 2002-31812 A1 20020328 (10)

WO 2001-US29590 20010917

DT Utility

FS APPLICATION

LREP Kate H Murashige, Morrison & Foerster, Suite 500, 3811 Valley Centre Drive, San Diego, CA, 92130-2332

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 6557

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 405230-07-1P, AMD 11037

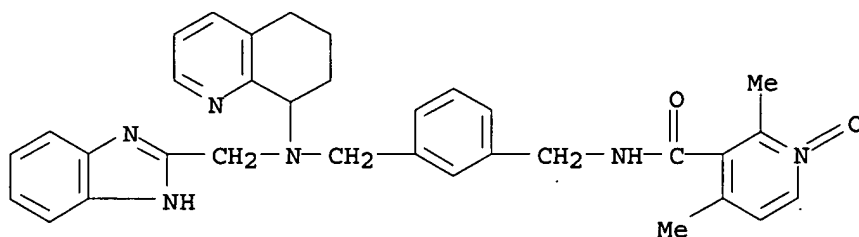
(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor antagonists for treatment of HIV and FIV infection)

RN 405230-07-1 USPATFULL

CN 3-Pyridinecarboxamide, N-[[3-[[[(1H-benzimidazol-2-ylmethyl) (5,6,7,8-tetrahydro-8-quinolinyl) amino]methyl]phenyl]methyl]-2,4-dimethyl-, 1-oxide, trihydrobromide (9CI) (CA INDEX NAME)

10015861

1/19/05



● 3 HBr

L5 ANSWER 9 OF 21 USPATFULL on STN

AB Novel compounds that are useful for targeting chemokine receptors are disclosed. These compounds are complex tertiary amines.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2003:24203 USPATFULL

TI Chemokine receptor binding heterocyclic compounds

IN Bridger, Gary, Bellingham, WA, UNITED STATES

Skerlj, Renato, Vancouver, CANADA

Kaller, Al, Vancouver, CANADA

Harwig, Curtis, White Rock, CANADA

Bogucki, David, Surrey, CANADA

Wilson, Trevor R., Langley, CANADA

Crawford, Jason, Vancouver, CANADA

McEachern, Ernest J., White Rock, CANADA

Atsma, Bem, Abbotsford, CANADA

Nan, Siqiao, Richmond, CANADA

Zhou, Yuanxi, Surrey, CANADA

Schols, Dominique, Herent, BELGIUM

Smith, Christopher Dennis, Vancouver, CANADA

Di Fluri, Rosaria Maria, Burnaby, CANADA

PI US 2003018046 A1 20030123

AI US 2001-957682 A1 20010917 (9)

PRAI US 2000-234510P 20000922 (60)

US 2000-232891P 20000915 (60)

DT Utility

FS APPLICATION

LREP MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332

CLMN Number of Claims: 19

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 9012

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 405230-07-1P, AMD 11037

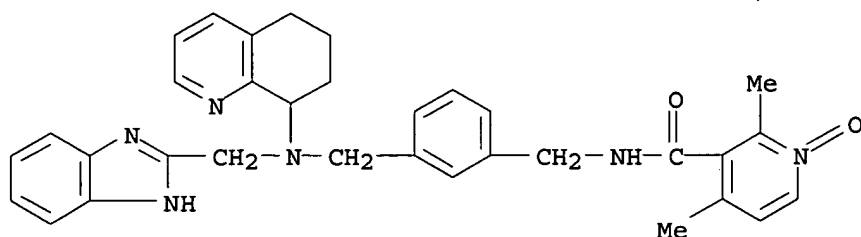
(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor antagonists for treatment of HIV and FIV infection)

RN 405230-07-1 USPATFULL

CN 3-Pyridinecarboxamide, N-[[[3-[[[(1H-benzimidazol-2-ylmethyl) (5,6,7,8-tetrahydro-8-quinolinyl)amino]methyl]phenyl]methyl]-2,4-dimethyl-, 1-oxide, trihydrobromide (9CI) (CA INDEX NAME)

10015861

1/19/05



● 3 HBr

L5 ANSWER 10 OF 21 USPATFULL on STN

AB Disclosed are nicotinanilide-N-oxide compounds, methods for their production, pharmaceutical compositions which include these compounds, and methods for their use in various therapies.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2003:4148 USPATFULL

TI Pharmaceutical uses and synthesis of nicotinanilide-N-oxides

IN Cutshall, Neil S., Everett, WA, UNITED STATES

Yager, Kraig M., Snohomish, WA, UNITED STATES

PA Darwin Discovery Ltd., Slough, UNITED KINGDOM (U.S. corporation)

PI US 2003004189 A1 20030102

AI US 2001-15861 A1 20011212 (10)

PRAI US 2000-258730P 20001229 (60)

DT Utility

FS APPLICATION

LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092

CLMN Number of Claims: 44

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1901

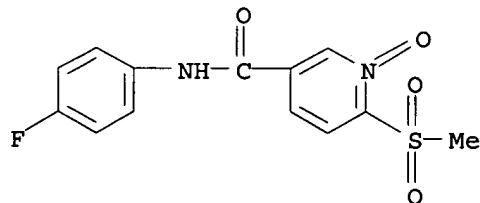
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 364078-34-2P

(drug candidate; preparation of nicotinanilide-N-oxides as G-protein-coupled receptor antagonist)

RN 364078-34-2 USPATFULL

CN 3-Pyridinecarboxamide, N-(4-fluorophenyl)-6-(methylsulfonyl)-, 1-oxide (9CI) (CA INDEX NAME)



10015861

1/19/05

L5 ANSWER 11 OF 21 USPATFULL on STN

AB Tertiary amines containing a multiplicity of heteroaromatic substituents are useful as chemokine receptor modulators.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2002:266313 USPATFULL

TI Chemokine receptor binding heterocyclic compounds

IN Bridger, Gary, Bellingham, WA, UNITED STATES

Skerlj, Renato, Vancouver, CANADA

Kaller, Al, Vancouver, CANADA

Harwig, Curtis, White Rock, CANADA

Bogucki, David, Surrey, CANADA

Wilson, Trevor R., Langley, CANADA

Crawford, Jason, Vancouver, CANADA

McEachern, Ernest J., White Rock, CANADA

Atsma, Bem, Abbotsford, CANADA

Nan, Siqiao, Richmond, CANADA

Zhou, Yuanxi, Surrey, CANADA

Schols, Dominique, Herent, BELGIUM

Smith, Christopher Dennis, Vancouver, CANADA

Di Fluri, Maria Rosaria, Burnaby, CANADA

PI US 2002147192 A1 20021010

US 6835731 B2 20041228

AI US 2001-957654 A1 20010917 (9)

PRAI US 2000-234816P 20000922 (60)

US 2000-233087P 20000915 (60)

DT Utility

FS APPLICATION

LREP MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 4028

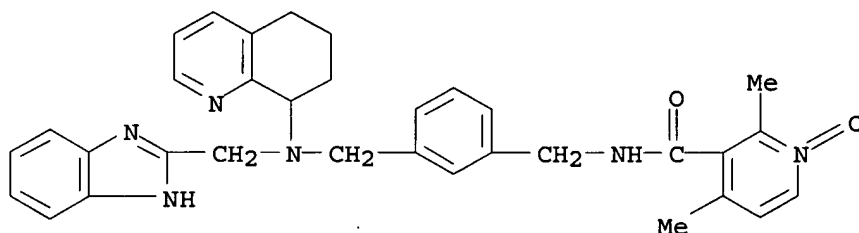
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 405230-07-1P, AMD 11037

(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor antagonists for treatment of HIV and FIV infection)

RN 405230-07-1 USPATFULL

CN 3-Pyridinecarboxamide, N-[[3-[[[(1H-benzimidazol-2-ylmethyl)(5,6,7,8-tetrahydro-8-quinolinyl)amino]methyl]phenyl]methyl]-2,4-dimethyl-, 1-oxide, trihydrobromide (9CI) (CA INDEX NAME)



● 3 HBr

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1/19/05

L5 ANSWER 12 OF 21 USPATFULL on STN

AB The present invention is directed to substituted nicotinamides and analogs thereof, represented by Formula V: ##STR1##

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

Ar' and Ar are independently optionally substituted aryl or optionally substituted heteroaryl, provided that the ring structure of said optionally substituted heteroaryl comprises not more than two nitrogen atoms; and

R.sub.11 is hydrogen; or alkyl, cycloalkyl, aryl or heteroaryl, each of which is optionally substituted.

The present invention also relates to the discovery that compounds having Formula V are activators of caspases and inducers of apoptosis. Therefore, the compounds of this invention may be used to induce cell death in a variety of clinical conditions in which uncontrolled growth and spread of abnormal cells occurs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2002:17305 USPATFULL

TI Substituted nicotinamides and analogs as activators of caspases and inducers of apoptosis and the use thereof

IN Cai, Sui Xiong, San Diego, CA, UNITED STATES

Drewe, John A., Carlsbad, CA, UNITED STATES

PA Cytovia, Inc. (U.S. corporation)

PI US 2002010185 A1 20020124

US 6794397 B2 20040921

AI US 2001-769420 A1 20010126 (9)

PRAI US 2000-177648P 20000127 (60)

DT Utility

FS APPLICATION

LREP STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934

CLMN Number of Claims: 73

ECL Exemplary Claim: 1

DRWN 5 Drawing Page(s)

LN.CNT 2408

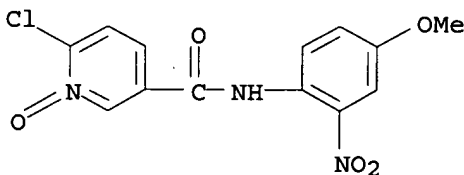
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 352228-60-5P

(preparation of benzamides, nicotinamides, pyrimidinecarboxamides, pyrrolylcarboxamides, and analogs as activators of caspase and inducers of apoptosis and use thereof)

RN 352228-60-5 USPATFULL

CN 3-Pyridinecarboxamide, 6-chloro-N-(4-methoxy-2-nitrophenyl)-, 1-oxide
(9CI) (CA INDEX NAME)



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1/19/05

LS ANSWER 13 OF 21 USPATFULL on STN

AB Pharmaceutical compositions comprising an inhibitor of ras farnesylation of formula (I) wherein, R.sup.1 is for example H and further values as defined in the specification; R.sup.2 is for example H and further values as defined in the specification; R.sup.3 is for example H or a substituent having values as defined in the specification; p is 0-3 in which R.sup.3 values can be the same or different; L is a linking moiety for example --CO--NH.sub.2 -- and further values as defined in the specification; A is selected from phenyl; naphthyl; a 5-10 membered monocyclic or bicyclic heteroaryl ring containing up to 5 heteroatoms where the heteroatoms are independently selected from O, N and S; or a --S--S-- dimer thereof when R.sup.2 =H; or an enantiomer, diastereoisomer, pharmaceutically acceptable salt, prodrug or solvate thereof together with a pharmaceutically acceptable diluent or carrier. A particular use is cancer therapy. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2001:71572 USPATFULL

TI 4-Mercaptopyrrolidine derivatives as farnesyl transferase inhibitors

IN Davies, David Huw, Macclesfield, United Kingdom

Boyle, Francis Thomas, Macclesfield, United Kingdom

Wardleworth, James Michael, Macclesfield, United Kingdom

Kenny, Peter Wedderburn, Macclesfield, United Kingdom

Scholes, Peter Beverley, Macclesfield, United Kingdom

Matusiak, Zbigniew Stanely, Macclesfield, United Kingdom

PA Zeneca Limited, London, United Kingdom (non-U.S. corporation)

PI US 6232338 B1 20010515

WO 9706138 19970220

AI US 1998-11135 19980203 (9)

WO 1996-GB1810 19960730

19980203 PCT 371 date

19980203 PCT 102(e) date

PRAI GB 1995-15975 19950804

DT Utility

FS Granted

EXNAM Primary Examiner: Ramsuer, Robert W.

LREP Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P..

CLMN Number of Claims: 11

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 3849

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 188354-08-7P

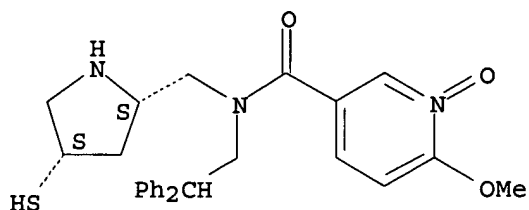
(preparation of 2-aminomethyl-4-mercaptopyrrolidines and analogs as farnesyl transferase inhibitors)

RN 188354-08-7 USPATFULL

CN 3-Pyridinecarboxamide, N-(2,2-diphenylethyl)-N-[(4-mercapto-2-pyrrolidinyl)methyl]-6-methoxy-, 1-oxide, (2S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

1/19/05



L5 ANSWER 14 OF 21 USPATFULL on STN

AB The present invention provides a pyridine-2,3-dicarboxylic acid diamide derivatives represented by the following formula (I) and herbicides containing them as an active ingredient. ##STR1## [wherein R.sub.1 represents one to three substituents such as H, halogen, cyano, nitro, (halo)alkyl, (halo)alkoxy, (halo)alkylthio, (C.sub.3-6)cycloalkyl, alkenyl, alkynyl, substituted phenyl, substituted phenoxy, etc. and R.sub.2 may represent alkylene or alkenylene together with an adjacent carbon atom; R.sub.3 represents H, halogen, cyano, nitro, (halo)alkyl or (halo)alkoxy; R.sub.4 represents H or alkyl; R.sub.5 and R.sub.6 each represent H, (halo)alkyl, cycloalkyl, substituted cycloalkylalkyl, etc.; and n represents an integer of 0 or 1].

The present compounds exhibit excellent effect for controlling paddy field weeds and the like.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 1998:150872 USPATFULL

TI Pyridine-2,3-dicarboxylic acid diamide derivatives and herbicides comprising said derivatives as active ingredient

IN Tonishi, Masanori, Sakai, Japan
Katsuhira, Takeshi, Kawachinagano, Japan
Ohtsuka, Takashi, Tondabayashi, Japan
Miura, Yuzo, Tondabayashi, Japan

PA Nihon Nohyaku Co., Ltd., Tokyo, Japan (non-U.S. corporation)

PI US 5843868 19981201

AI US 1997-825642 19970401 (8)

PRAI JP 1996-104580 19960402

DT Utility

FS Granted

EXNAM Primary Examiner: Fan, Jane

LREP Cushman Darby & Cushman IP Group of Pillsbury Madison & Sutro LLP

CLMN Number of Claims: 4

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1833

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 197918-70-0P

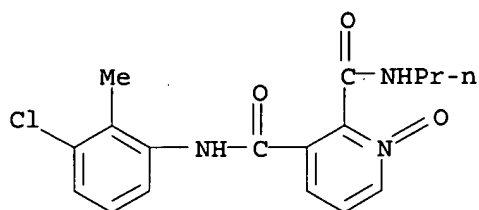
(preparation of pyridine-2,3-dicarboxamides as herbicides)

RN 197918-70-0 USPATFULL

CN 2,3-Pyridinedicarboxamide, N3-(3-chloro-2-methylphenyl)-N2-propyl-, 1-oxide (9CI) (CA INDEX NAME)

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1/19/05



LS ANSWER 15 OF 21 USPATFULL on STN

AB 2,4- and 2,5-substituted pyridine-N-oxides are provided which are effective as fibrosuppressives and immunosuppressives. Said compounds are also suitable for the treatment of disorders of the metabolism of collagen and collagen-like substances or the biosynthesis of Clq.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 93:93813 USPATFULL

TI 2,4- and 2,5-substituted pyridine-N-oxides, processes for their preparation and their use

IN Baader, Ekkehard, Konigstein/Taunus, Germany, Federal Republic of
Bickel, Martin, Bad Homburg, Germany, Federal Republic of
Gunzler-Pukall, Volkmar, Marburg, Germany, Federal Republic of

PA Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic of (non-U.S. corporation)

PI US 5260323 19931109

AI US 1992-978467 19921119 (7)

RLI Continuation of Ser. No. US 1991-721681, filed on 26 Jun 1991, now abandoned

PRAI DE 1990-4020570 19900628

DT Utility

FS Granted

EXNAM Primary Examiner: Richter, Johann

LREP Finnegan, Henderson, Farabow, Garrett & Dunner

CLMN Number of Claims: 11

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 605

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 139994-12-0P

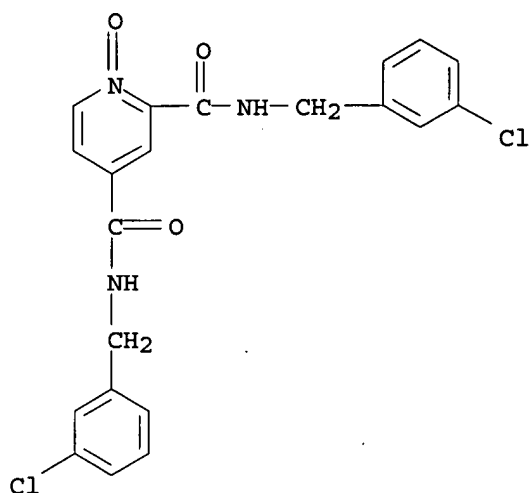
(preparation of, as fibrosuppressive and immunosuppressive agent)

RN 139994-12-0 USPATFULL

CN 2,4-Pyridinedicarboxamide, N,N'-bis[(3-chlorophenyl)methyl]-, 1-oxide (9CI) (CA INDEX NAME)

10015861

1/19/05



L5 ANSWER 16 OF 21 USPATFULL on STN

AB A compound of the formula (I) ##STR1## or 1-oxide or salt thereof, wherein

R.sub.1 is a C.sub.1-11 alkyl group, a lower alkenyl group, a phenyl or group which may be substituted, an aralkyl group whose nucleus may be substituted, a haloalkyl or a 5- or 6-membered heterocycle group;

R.sub.2, R.sub.3, R.sub.4, R.sub.5 and R.sub.6 are, the same or different, hydrogen atom, a halogen atom, cyano group, nitro group, amino group, a lower alkyl group, a lower haloalkyl group, hydroxy group, a lower alkoxy group, an aryloxy group, carboxy group or a lower alkoxy carbonyl group;

R.sub.7 is hydrogen atom, a halogen atom, a lower alkyl group, a phenyl group which may be substituted, an aralkyl group whose nucleus may be substituted, a lower alkenyl group, a lower alkynyl group, a lower alkoxy group or a haloalkyl group;

R.sub.8 is a C.sub.1-11 alkyl group, a lower alkenyl group, a lower alkynyl group, a cycloalkyl group, a lower alkoxyalkyl group, a lower alkylthioalkyl group, a phenyl group which may be substituted, an aralkyl group whose nucleus may be substituted, a haloalkyl group or a 5 or 6 membered heterocycle group; or R.sub.7 and R.sub.8 may be combined to form a group of --(CH.sub.2).sub.m-- (m is 3 or 4); X is a halogen atom, which can be used as herbicidal compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 90:96528 USPATFULL

TI 4-halopyridine-3-carboxamide compounds and herbicidal compositions thereof

IN Yagihara, Hiroshi, Himeji, Japan
Goto, Yukihiisa, Himeji, Japan
Masamoto, Kazuhisa, Arai, Japan
Morishima, Yasuo, Kobe, Japan
Osabe, Hirokazu, Himeji, Japan

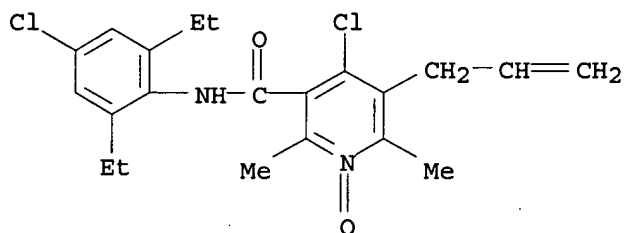
PA Daicel Chemical Industries Ltd., Japan (non-U.S. corporation)

PI US 4978385 19901218

10015861

1/19/05

AI US 1988-199187 19880526 (7)
PRAI JP 1987-131696 19870529
JP 1987-262333 19871016
DT Utility
FS Granted
EXNAM Primary Examiner: Lee, Mary C.; Assistant Examiner: Richter, J.
LREP Bryan, Cave, McPheeters & McRoberts
CLMN Number of Claims: 30
ECL Exemplary Claim: 1,11
DRWN No Drawings
LN.CNT 1211
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 119766-03-9P
(preparation of, as herbicide)
RN 119766-03-9 USPATFULL
CN 3-Pyridinecarboxamide, 4-chloro-N-(4-chloro-2,6-diethylphenyl)-2,6-dimethyl-5-(2-propenyl)-, 1-oxide (9CI) (CA INDEX NAME)



L5 ANSWER 17 OF 21 USPATFULL on STN
AB N-phenyl-N'-(pyridinyl-N-oxide)ureas of the formula ##STR1## and their use as plant regulators are disclosed and exemplified.

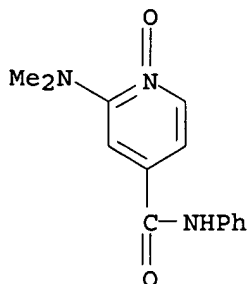
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 88:77226 USPATFULL
TI N-phenyl-N'-(pyridinyl-N-oxide)urea plant regulators
IN Henrie, II, Robert, E. Windsor, NJ, United States
Green, Christine M., Skillman, NJ, United States
Sticker, Robert E., Middleport, NY, United States
PA FMC Corporation, Philadelphia, PA, United States (U.S. corporation)
PI US 4787931 19881129
AI US 1986-875415 19860617 (6)
RLI Continuation-in-part of Ser. No. US 1984-586574, filed on 6 Mar 1984, now abandoned which is a continuation-in-part of Ser. No. US 1983-480055, filed on 29 Mar 1983, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Fan, Jane T.
LREP Ertelt, H. Robinson, Andersen, Robert L., Schmonsees, William
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1095
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 121417-55-8P
(preparation and reaction of, in preparation of urea plant growth inhibitors)
RN 121417-55-8 USPATFULL

10015861

1/19/05

CN 4-Pyridinecarboxamide, 2-(dimethylamino)-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 21 USPATFULL on STN

AB A compounds of the general formula (I): ##STR1## wherein R.sup.1 is alkyl, lower alkenyl, lower alkynyl, aralkyl, haloalkyl, lower alkoxy-lower alkyl, lower alkylthio-lower alkyl or lower alkoxycarbonyl-lower alkyl group; R.sup.2 is aryl group which may be substituted by one or more groups of halogen atom, lower alkyl, lower alkoxy, lower alkoxycarbonyl, trifluoromethyl, cyano and nitro group; R.sup.3 and R.sup.4 are, the same or different, lower alkyl, aralkyl, haloalkyl or cycloalkyl, or aryl group which may be substituted by one or more groups of halogen atom, lower alkyl, lower alkoxy, trifluoromethyl, cyano or nitro group; R.sup.5 is hydrogen atom, halogen atom, lower alkyl, phenyl which may be substituted or aralkyl which may be substituted; or R.sup.4 and R.sup.5 may be combined to form a group of --(CH.sub.2).sub.n - in which n is 3 or 4, or its 1-oxide or addition salt. which is useful as a plant growth inhibitory agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 88:14745 USPATFULL

TI 4-(substituted-oxy)-3-pyridinecarboxamides useful as plant growth inhibitory agents

IN Ueda, Yoichiro, Himeji, Japan
Goto, Yukihiisa, Himeji, Japan
Masamoto, Kazuhisa, Himeji, Japan
Hirako, Yoshiyuki, Otake, Japan
Yagihara, Hiroshi, Himeji, Japan
Morishima, Yasuo, Kobe, Japan
Osabe, Hirokazu, Himeji, Japan

PA Daicel Chemical Industries Ltd., Osaka, Japan (non-U.S. corporation)

PI US 4730051 19880308

AI US 1986-819144 19860115 (6)

PRAI JP 1985-7665 19850118

JP 1985-171673 19850802

JP 1985-211821 19850925

DT Utility

FS Granted

EXNAM Primary Examiner: Rotman, Alan L.

LREP Stiefel, Gross, Kurland & Pavane

CLMN Number of Claims: 4

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1380

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

10015861

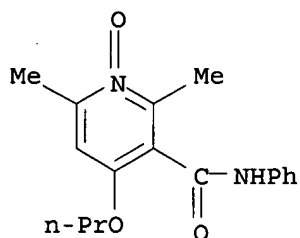
1/19/05

IT 110727-39-4P

(preparation of, as plant growth inhibitor)

RN 110727-39-4 USPATFULL

CN 3-Pyridinecarboxamide, 2,6-dimethyl-N-phenyl-4-propoxy-, 1-oxide (9CI)
(CA INDEX NAME)



L5 ANSWER 19 OF 21 USPAT2 on STN

AB Compounds which modulate chemokine receptor activities are disclosed.
These compounds are preferably tertiary amines comprising
tetrahydroquinoline and benzimidazole.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2003:38375 USPAT2

TI Chemokine receptor binding heterocyclic compounds

IN Bridger, Gary, Bellingham, WA, United States

Skerlj, Renato, Blaine, WA, United States

Kaller, Al, Vancouver, CANADA

Harwig, Curtis, White Rock, CANADA

Bogucki, David, Surrey, CANADA

Wilson, Trevor R., Langley, CANADA

Crawford, Jason, Vancouver, CANADA

McEachern, Ernest J., White Rock, CANADA

Atsma, Bern, Langley, CANADA

Nan, Siqiao, Richmond, CANADA

Zhou, Yuanxi, Langley, CANADA

Schols, Dominique, Herent, BELGIUM

Dennis, Christopher, Vancouver, CANADA

Di Fluri, Rosaria Maria, Burnaby, CANADA

PA AnorMED, Inc., Langley, CANADA (non-U.S. corporation)

PI US 6734191 B2 20040511

WO 2002034745 20020502

AI US 2002-31812 20020328 (10)

WO 2001-US29590 20010917

PRAI US 2000-232891P 20000915 (60)

US 2000-234510P 20000922 (60)

US 2000-233087P 20000915 (60)

US 2000-234816P 20000922 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Desai, Rita

LREP Morrison & Foerster LLP

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 6674

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

10015861

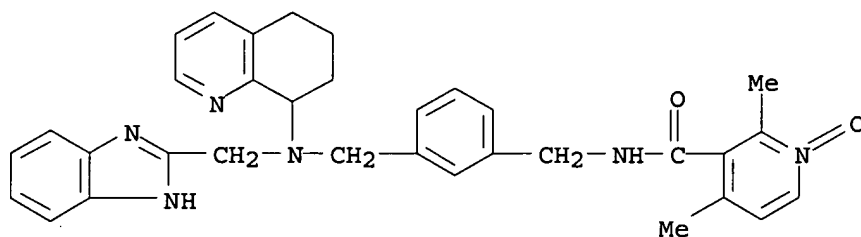
1/19/05

IT 405230-07-1P, AMD 11037

(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor antagonists for treatment of HIV and FIV infection)

RN 405230-07-1 USPAT2

CN 3-Pyridinecarboxamide, N-[[3-[[[(1H-benzimidazol-2-ylmethyl)(5,6,7,8-tetrahydro-8-quinolinyl)amino]methyl]phenyl]methyl]-2,4-dimethyl-, 1-oxide, trihydrobromide (9CI) (CA INDEX NAME)



● 3 HBr

L5 ANSWER 20 OF 21 USPAT2 on STN

AB Tertiary amines containing a multiplicity of heteroaromatic substituents are useful as chemokine receptor modulators.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2002:266313 USPAT2

TI Chemokine receptor binding heterocyclic compounds

IN Bridger, Gary, Bellingham, WA, United States

Skerlj, Renato, Blaine, WA, United States

Kaller, Al, Vancouver, CANADA

Harwig, Curtis, White Rock, CANADA

Bogucki, David, Surrey, CANADA

Wilson, Trevor R., Langley, CANADA

Crawford, Jason, Vancouver, CANADA

McEachern, Ernest J., White Rock, CANADA

Atsma, Bem, Langley, CANADA

Nan, Siqiao, Burnaby, CANADA

Zhou, Yuanxi, Langley, CANADA

Schols, Dominique, Herent, BELGIUM

Dennis, Christopher, Vancouver, CANADA

Di Fluri, Rosaria Maria, Burnaby, CANADA

PA AnorMED, Inc., Langley, CANADA (non-U.S. corporation)

PI US 6835731 B2 20041228

AI US 2001-957654 20010917 (9)

PRAI US 2000-234816P 20000922 (60)

US 2000-233087P 20000915 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Raymond, Richard L.; Assistant Examiner: Truong, Tamthom N.

LREP Morrison & Foerster LLP

CLMN Number of Claims: 10

ECL Exemplary Claim: 1

10015861

1/19/05

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 3957

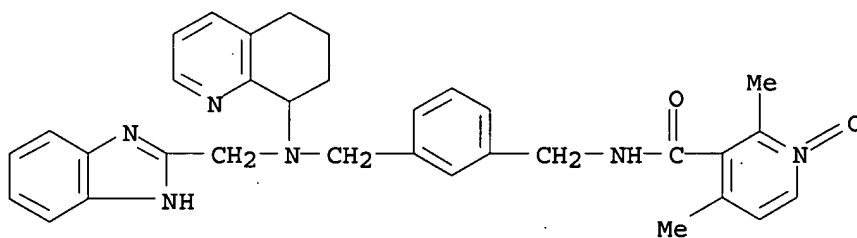
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 405230-07-1P, AMD 11037

(AMD 11037, drug candidate; preparation of tetrahydroquinolinylamino- and benzimidazolylmethyl-containing heterocyclic amides as chemokine receptor antagonists for treatment of HIV and FIV infection)

RN 405230-07-1 USPAT2

CN 3-Pyridinecarboxamide, N-[[[3-[[[(1H-benzimidazol-2-ylmethyl)(5,6,7,8-tetrahydro-8-quinolinyl)amino]methyl]phenyl]methyl]-2,4-dimethyl-, 1-oxide, trihydrobromide (9CI) (CA INDEX NAME)



●3 HBr

L5 ANSWER 21 OF 21 USPAT2 on STN

AB The present invention is directed to substituted nicotinamides and analogs thereof, represented by Formula V: ##STR1##

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

Ar' and Ar are independently optionally substituted aryl or optionally substituted heteroaryl, provided that the ring structure of said optionally substituted heteroaryl comprises not more than two nitrogen atoms; and

R.sub.11 is hydrogen; or alkyl, cycloalkyl, aryl or heteroaryl, each of which is optionally substituted.

The present invention also relates to the discovery that compounds having Formula V are activators of caspases and inducers of apoptosis. Therefore, the compounds of this invention may be used to induce cell death in a variety of clinical conditions in which uncontrolled growth and spread of abnormal cells occurs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2002:17305 USPAT2

TI Substituted nicotinamides and analogs as activators of caspases and inducers of apoptosis and the use thereof

IN Cai, Sui Xiong, San Diego, CA, United States

Drewe, John A., Carlsbad, CA, United States

PA Cytovia, Inc., San Diego, CA, United States (U.S. corporation)

PI US 6794397 B2 20040921

AI US 2001-769420 20010126 (9)

PRAI US 2000-177648P 20000127 (60)

10015861

1/19/05

DT Utility
FS GRANTED
EXNAM Primary Examiner: Wilson, James O.; Assistant Examiner: McKenzie, Thomas
LREP Sterne, Kessler, Goldstein & Fox P.L.L.C.
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 2404
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 352228-60-5P
(preparation of benzamides, nicotinamides, pyrimidinecarboxamides,
pyrrolylcarboxamides, and analogs as activators of caspase and inducers
of apoptosis and use thereof)
RN 352228-60-5 USPAT2
CN 3-Pyridinecarboxamide, 6-chloro-N-(4-methoxy-2-nitrophenyl)-, 1-oxide
(9CI) (CA INDEX NAME)

